# TABLE OF CONTENTS

Admission and Costs ............................................................. 11
Undergraduate Admission ..................................................... 12
Graduate Admission ............................................................. 17
International Admission ......................................................... 18
Tuition and Fees ................................................................. 19
Aid and Scholarships ............................................................ 20
Policies ........................................................................... 21
Graduate Policies ................................................................. 22
Undergraduate Policies ......................................................... 27
Opportunities and Resources ................................................ 35
Honors College .................................................................. 36
Undecided Students ............................................................. 38
UWM Online .................................................................... 39
Academic Enrichment ........................................................... 40
Catalog Glossary ................................................................. 43
Architecture and Urban Planning (School of) ......................... 44
Architecture ...................................................................... 45
Architectural Studies, BS ...................................................... 52
Architectural Studies, Minor ................................................... 55
Architecture MArch: Ecological Design .................................. 55
Architecture MArch: Preservation Studies ............................... 57
Architecture MArch: Real Estate Development ......................... 59
Architecture, MArch ............................................................ 61
Architecture, MArch/Urban Planning, MUP ......................... 63
Architecture, MS ................................................................. 64
Architecture, PhD ............................................................... 65
Urban Planning ................................................................. 67
Geographic Information Systems, Graduate Certificate (School of
Architecture and Urban Planning) ........................................ 71
Urban Planning MUP, Geographic Information Systems .......... 73
Urban Planning MUP, Real Estate Development ....................... 75
Urban Planning, MUP .......................................................... 77
Urban Planning, MUP/Architecture, MArch ........................... 78
Urban Planning, MUP/Engineering, MS ................................. 79
Urban Planning, MUP/Public Administration, MPA ................. 80
Urban Planning, Undergraduate Certificate ............................ 81
Arts (Peck School of the) ....................................................... 82
Art & Design .................................................................... 86
Art and Design, Minor: Community Arts ............................... 108
Art and Design, Minor: Design .............................................. 109
Art and Design, Minor: Photography ..................................... 109
Art and Design, Minor: Studio .............................................. 110
Art Education, BFA ............................................................. 110
Art Education, MS ............................................................... 114
Art, BA: Community Arts ..................................................... 115
Art, BA: Design Studies ....................................................... 118
Art, BA: Digital Fabrication and Design ................................. 121
Art, BA: Studio Arts ............................................................ 124
Art, BFA: Ceramics ............................................................. 126
Art, BFA: Design and Visual Communication ......................... 129
Art, BFA: Digital Studio Practice .......................................... 133
Art, BFA: Fibers ................................................................. 136
Art, BFA: Jewelry and Metalsmithing .................................... 139
Art, BFA: Painting and Drawing ............................................ 143
Art, BFA: Photography and Imaging ...................................... 146
Art, BFA: Print and Narrative Forms ..................................... 149
Art, BFA: Sculpture ............................................................ 152
Art, MA: Design Entrepreneurship and Innovation .................. 155
Art, MA: Studio Art ............................................................ 157
Art, MFA ......................................................................... 158
Arts Integration and Learning, Undergraduate Certificate (Peck
School of the Arts) ............................................................. 159
Community Arts, Undergraduate Certificate ............................ 160
Digital Fabrication and Design, Undergraduate Certificate ....... 161
Dance ........................................................................... 162
Dance Performance, Minor .................................................... 171
Dance, BA ...................................................................... 172
Dance, BFA .................................................................... 175
Dance, MFA .................................................................... 178
Somatics, Minor ................................................................ 179
Film ............................................................................ 180
Animation, BA ................................................................. 184
Film, BFA ...................................................................... 187
Film, Video, Animation and New Genres, Minor ..................... 190
Performing Arts, MFA: Film .................................................. 191
Music ........................................................................... 193
Advanced Study in Chamber Music, Graduate Certificate ........ 231
Music Education, BFA: EC–A General Music .......................... 235
Music Education, BFA: EC–A Instrumental and General Music .... 238
Music, BA .................................................................... 241
Music, BFA: Collaborative Piano and Vocal ......................... 244
<table>
<thead>
<tr>
<th>Subject</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music, BFA: Guitar</td>
<td>248</td>
</tr>
<tr>
<td>Music, BFA: Music Composition and Technology</td>
<td>253</td>
</tr>
<tr>
<td>Music, BFA: Music History and Literature</td>
<td>256</td>
</tr>
<tr>
<td>Music, BFA: Piano</td>
<td>260</td>
</tr>
<tr>
<td>Music, BFA: Strings</td>
<td>264</td>
</tr>
<tr>
<td>Music, BFA: Voice</td>
<td>269</td>
</tr>
<tr>
<td>Music, BFA: Winds, Brass, and Percussion</td>
<td>272</td>
</tr>
<tr>
<td>Music, Minor</td>
<td>276</td>
</tr>
<tr>
<td>Music, MM</td>
<td>277</td>
</tr>
<tr>
<td>Music, MM/Library and Information Science, MLIS</td>
<td>279</td>
</tr>
<tr>
<td>Music, MM: Chamber Music Performance</td>
<td>280</td>
</tr>
<tr>
<td>Music, MM: Collaborative Piano: Instrumental</td>
<td>282</td>
</tr>
<tr>
<td>Music, MM: Collaborative Piano: Vocal</td>
<td>283</td>
</tr>
<tr>
<td>Music, MM: Conducting: Choral Emphasis</td>
<td>284</td>
</tr>
<tr>
<td>Music, MM: Conducting: Instrumental</td>
<td>286</td>
</tr>
<tr>
<td>Music, MM: Music Education</td>
<td>287</td>
</tr>
<tr>
<td>Music, MM: Music History and Literature</td>
<td>289</td>
</tr>
<tr>
<td>Music, MM: Performance: Guitar</td>
<td>290</td>
</tr>
<tr>
<td>Music, MM: Performance: Keyboard</td>
<td>292</td>
</tr>
<tr>
<td>Music, MM: Performance: Percussion</td>
<td>293</td>
</tr>
<tr>
<td>Music, MM: Performance: String Emphasis</td>
<td>295</td>
</tr>
<tr>
<td>Music, MM: Performance: Vocal Emphasis</td>
<td>296</td>
</tr>
<tr>
<td>Music, MM: Performance: Woodwinds, Brass, and Percussion</td>
<td>298</td>
</tr>
<tr>
<td>Music, MM: String Pedagogy</td>
<td>300</td>
</tr>
<tr>
<td>Music, MM: Theory and Composition</td>
<td>301</td>
</tr>
<tr>
<td>Theatre</td>
<td>304</td>
</tr>
<tr>
<td>Arts and Social Entrepreneurship, Undergraduate Certificate</td>
<td>312</td>
</tr>
<tr>
<td>Theatre Teaching Certification, Minor</td>
<td>313</td>
</tr>
<tr>
<td>Theatre, BA</td>
<td>313</td>
</tr>
<tr>
<td>Theatre, BFA: Performance</td>
<td>318</td>
</tr>
<tr>
<td>Theatre, BFA: Production</td>
<td>323</td>
</tr>
<tr>
<td>Theatre, Minor</td>
<td>326</td>
</tr>
<tr>
<td>Business Administration, MBA: Entrepreneurship</td>
<td>365</td>
</tr>
<tr>
<td>Business Administration MBA: Supply Chain Management</td>
<td>370</td>
</tr>
<tr>
<td>Business Analytics, Graduate Certificate</td>
<td>371</td>
</tr>
<tr>
<td>Business Administration MBA: Business Analytics</td>
<td>365</td>
</tr>
<tr>
<td>Business Administration MBA: Finance</td>
<td>367</td>
</tr>
<tr>
<td>Business Administration MBA: Health Care Management</td>
<td>368</td>
</tr>
<tr>
<td>Business Administration MBA: Marketing</td>
<td>369</td>
</tr>
<tr>
<td>Business Scholars Program</td>
<td>372</td>
</tr>
<tr>
<td>Enterprise Resource Planning, Graduate Certificate</td>
<td>373</td>
</tr>
<tr>
<td>Enterprise Resource Planning, Undergraduate Certificate</td>
<td>374</td>
</tr>
<tr>
<td>Entrepreneurship, Undergraduate Certificate</td>
<td>375</td>
</tr>
<tr>
<td>Executive, MBA</td>
<td>376</td>
</tr>
<tr>
<td>Finance, BBA</td>
<td>377</td>
</tr>
<tr>
<td>General Business, Minor</td>
<td>380</td>
</tr>
<tr>
<td>Global Studies, BA: Global Management</td>
<td>381</td>
</tr>
<tr>
<td>Human Resources and Labor Relations, MHRLR (Lubar School of Business)</td>
<td>382</td>
</tr>
<tr>
<td>Human Resources Management, BBA</td>
<td>384</td>
</tr>
<tr>
<td>Information Technology Management, BBA</td>
<td>387</td>
</tr>
<tr>
<td>Information Technology Management, MS</td>
<td>390</td>
</tr>
<tr>
<td>International Business, Undergraduate Certificate</td>
<td>391</td>
</tr>
<tr>
<td>Investment Management, Graduate Certificate</td>
<td>392</td>
</tr>
<tr>
<td>Investment Management, Undergraduate Certificate</td>
<td>393</td>
</tr>
<tr>
<td>Management Science, PhD</td>
<td>394</td>
</tr>
<tr>
<td>Management, MS</td>
<td>396</td>
</tr>
<tr>
<td>Management, MS: Accounting</td>
<td>397</td>
</tr>
<tr>
<td>Management, MS: Finance Analysis</td>
<td>399</td>
</tr>
<tr>
<td>Management, MS: Marketing</td>
<td>401</td>
</tr>
<tr>
<td>Management, MS: Professional Accounting</td>
<td>403</td>
</tr>
<tr>
<td>Management, MS: Taxation</td>
<td>405</td>
</tr>
<tr>
<td>Marketing, BBA</td>
<td>407</td>
</tr>
<tr>
<td>Nonprofit Management and Leadership, MS (Lubar School of Business)</td>
<td>410</td>
</tr>
<tr>
<td>Nonprofit Management, Graduate Certificate (Lubar School of Business)</td>
<td>412</td>
</tr>
<tr>
<td>Public Administration, MPA (Lubar School of Business)</td>
<td>414</td>
</tr>
<tr>
<td>Public Administration, MPA/Criminal Justice, MS</td>
<td>416</td>
</tr>
<tr>
<td>Public Administration, MPA/Urban Planning, MUP</td>
<td>418</td>
</tr>
<tr>
<td>Real Estate, Undergraduate Certificate</td>
<td>419</td>
</tr>
<tr>
<td>State and Local Taxation, Graduate Certificate</td>
<td>420</td>
</tr>
<tr>
<td>Supply Chain and Operations Management, BBA</td>
<td>421</td>
</tr>
<tr>
<td>Technology Entrepreneurship, Undergraduate Certificate</td>
<td>424</td>
</tr>
<tr>
<td>Technology Entrepreneurship, Graduate Certificate</td>
<td>425</td>
</tr>
<tr>
<td>Education (School of)</td>
<td>426</td>
</tr>
<tr>
<td>Administrative Leadership</td>
<td>.......................................................... 431</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------------------------------------</td>
</tr>
<tr>
<td>Administrative Leadership MS: Adult, Continuing, and Higher Education Administration</td>
<td>.......................................................... 438</td>
</tr>
<tr>
<td>Administrative Leadership MS: Educational Administration and Supervision</td>
<td>.......................................................... 440</td>
</tr>
<tr>
<td>Administrative Leadership Specialist, Graduate Certificate</td>
<td>.......................................................... 441</td>
</tr>
<tr>
<td>Administrative Leadership, MS</td>
<td>.......................................................... 441</td>
</tr>
<tr>
<td>Educational Studies, BS</td>
<td>.......................................................... 442</td>
</tr>
<tr>
<td>Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership)</td>
<td>.......................................................... 443</td>
</tr>
<tr>
<td>Support Services for Online Students in Higher Education, Graduate Certificate</td>
<td>.......................................................... 444</td>
</tr>
<tr>
<td>Teaching and Learning in Higher Education, Graduate Certificate</td>
<td>.......................................................... 446</td>
</tr>
<tr>
<td>American Sign Language Studies, Minor</td>
<td>.......................................................... 448</td>
</tr>
<tr>
<td>Education, BS: American Sign Language Studies</td>
<td>.......................................................... 449</td>
</tr>
<tr>
<td>Education, BS: Interpreter Training Program</td>
<td>.......................................................... 451</td>
</tr>
<tr>
<td>Educational Policy and Community Studies</td>
<td>.......................................................... 454</td>
</tr>
<tr>
<td>Community Engagement and Education, BS</td>
<td>.......................................................... 463</td>
</tr>
<tr>
<td>Community Engagement and Education, BS: Child and Family Services</td>
<td>.......................................................... 465</td>
</tr>
<tr>
<td>Community Engagement and Education, BS: Child Care</td>
<td>.......................................................... 468</td>
</tr>
<tr>
<td>Community Engagement and Education, BS: Community Leadership</td>
<td>.......................................................... 470</td>
</tr>
<tr>
<td>Community Engagement and Education, BS: Community-Based Organizations: Policy and Leadership</td>
<td>.......................................................... 473</td>
</tr>
<tr>
<td>Community Engagement Strategies, Undergraduate Certificate</td>
<td>.......................................................... 476</td>
</tr>
<tr>
<td>Community Engagement, Minor</td>
<td>.......................................................... 478</td>
</tr>
<tr>
<td>Community Leadership, Undergraduate Certificate</td>
<td>.......................................................... 479</td>
</tr>
<tr>
<td>Community-Based Organizations: Policy and Leadership, Undergraduate Certificate</td>
<td>.......................................................... 480</td>
</tr>
<tr>
<td>Cultural Foundations of Community Engagement and Education, MS</td>
<td>.......................................................... 481</td>
</tr>
<tr>
<td>Educational Policy, Graduate Certificate</td>
<td>.......................................................... 482</td>
</tr>
<tr>
<td>Youth Work, Undergraduate Certificate (School of Education, Department of Educational Policy and Community Studies)</td>
<td>.......................................................... 483</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>.......................................................... 485</td>
</tr>
<tr>
<td>Children's Mental Health for School Professionals, Graduate Certificate</td>
<td>.......................................................... 498</td>
</tr>
<tr>
<td>Counseling, Minor</td>
<td>.......................................................... 499</td>
</tr>
<tr>
<td>Educational Psychology MS: Clinical Mental Health Counseling</td>
<td>.......................................................... 499</td>
</tr>
<tr>
<td>Educational Psychology MS: Educational Statistics and Measurement</td>
<td>.......................................................... 501</td>
</tr>
<tr>
<td>Educational Psychology MS: Learning and Development</td>
<td>.......................................................... 502</td>
</tr>
<tr>
<td>Educational Psychology MS: School Counseling</td>
<td>.......................................................... 503</td>
</tr>
<tr>
<td>Educational Psychology MS: School Psychology</td>
<td>.......................................................... 504</td>
</tr>
<tr>
<td>Educational Psychology PhD: School Psychology</td>
<td>.......................................................... 506</td>
</tr>
<tr>
<td>Educational Psychology PhD: Counseling Psychology</td>
<td>.......................................................... 508</td>
</tr>
<tr>
<td>Educational Psychology PhD: Educational Statistics and Measurement</td>
<td>.......................................................... 511</td>
</tr>
<tr>
<td>Educational Psychology PhD: Learning and Development</td>
<td>.......................................................... 513</td>
</tr>
<tr>
<td>Educational Psychology, MS</td>
<td>.......................................................... 516</td>
</tr>
<tr>
<td>Educational Psychology, PhD</td>
<td>.......................................................... 516</td>
</tr>
<tr>
<td>Multicultural Knowledge of Mental Health Practices, Graduate Certificate</td>
<td>.......................................................... 519</td>
</tr>
<tr>
<td>School Counseling, Graduate Certificate</td>
<td>.......................................................... 520</td>
</tr>
<tr>
<td>School Psychology, EdS</td>
<td>.......................................................... 521</td>
</tr>
<tr>
<td>Trauma Informed Care, Graduate Certificate (School of Education, Department of Educational Psychology)</td>
<td>.......................................................... 522</td>
</tr>
<tr>
<td>Teaching and Learning</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Advanced Study in Teaching and Learning, Graduate Certificate</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Arts Integration and Learning, Undergraduate Certificate (School of Education)</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Assistive Technology and Accessible Design, Graduate Certificate (School of Education, Department of Teaching and Learning)</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Autism Spectrum Disorders, Graduate Certificate</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Autism Spectrum Disorders, Undergraduate Certificate</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Bilingual Education (Supplemental), Minor</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Cultures and Communities Education</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Early Childhood Education</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Creative Writing</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Language and Linguistics</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Literary Studies</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Modern Studies</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Professional Writing</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Rhetoric and Composition</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Mathematics Education</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Mathematics Teacher Leadership</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Reading Education</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Science Education</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Urban Social Studies</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Curriculum and Instruction, MS</td>
<td>.......................................................... 524</td>
</tr>
<tr>
<td>Course</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Computer Engineering, BSE</td>
<td>571</td>
</tr>
<tr>
<td>Education, BS: Early Adolescence - Adolescence Level: Math</td>
<td>574</td>
</tr>
<tr>
<td>Education, BS: Early Adolescence - Adolescence Level: Science</td>
<td></td>
</tr>
<tr>
<td>Education, BS: Early Adolescence - Adolescence Level: Social Studies</td>
<td>577</td>
</tr>
<tr>
<td>Education, BS: Early Adolescence: English</td>
<td>580</td>
</tr>
<tr>
<td>Education, BS: Early Childhood</td>
<td>584</td>
</tr>
<tr>
<td>Education, BS: Early Childhood - Adolescence Level: Math</td>
<td></td>
</tr>
<tr>
<td>Education, BS: English as a Second Language</td>
<td>587</td>
</tr>
<tr>
<td>Education, BS: Early Childhood - Adolescence Level: Math</td>
<td></td>
</tr>
<tr>
<td>Education, BS: Early Childhood - Early Adolescence</td>
<td>590</td>
</tr>
<tr>
<td>Education, BS: Inclusion and Accessibility Studies</td>
<td>594</td>
</tr>
<tr>
<td>Education, BS: Inclusion and Accessibility Studies, Minor</td>
<td></td>
</tr>
<tr>
<td>Education, BS: Middle Childhood - Early Adolescence</td>
<td>596</td>
</tr>
<tr>
<td>English as a Second Language, Minor</td>
<td>600</td>
</tr>
<tr>
<td>Exceptional Education, BS: Early Adolescence - Adolescence</td>
<td>601</td>
</tr>
<tr>
<td>Exceptional Education, BS: Early Childhood</td>
<td>604</td>
</tr>
<tr>
<td>Exceptional Education, BS: Middle Childhood - Early Adolescence</td>
<td>607</td>
</tr>
<tr>
<td>Exceptional Education, MS</td>
<td>609</td>
</tr>
<tr>
<td>Inclusion and Accessibility Studies, Minor</td>
<td>611</td>
</tr>
<tr>
<td>Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate</td>
<td>612</td>
</tr>
<tr>
<td>Mathematics Teacher Leadership, Graduate Certificate</td>
<td>613</td>
</tr>
<tr>
<td>Transition for Students with Disabilities, Graduate Certificate</td>
<td>614</td>
</tr>
<tr>
<td>World Language, Minor</td>
<td>615</td>
</tr>
<tr>
<td>Urban Education</td>
<td>619</td>
</tr>
<tr>
<td>Urban Education PhD: Adult, Continuing, and Higher Education</td>
<td>621</td>
</tr>
<tr>
<td>Leadership (ACHEL)</td>
<td></td>
</tr>
<tr>
<td>Urban Education PhD: Art Education</td>
<td>624</td>
</tr>
<tr>
<td>Urban Education PhD: Curriculum and Instruction</td>
<td>627</td>
</tr>
<tr>
<td>Urban Education PhD: Educational Administration</td>
<td>629</td>
</tr>
<tr>
<td>Urban Education PhD: Exceptional Education</td>
<td>632</td>
</tr>
<tr>
<td>Urban Education PhD: Mathematics Education</td>
<td>635</td>
</tr>
<tr>
<td>Urban Education PhD: Multicultural Studies</td>
<td>638</td>
</tr>
<tr>
<td>Urban Education PhD: Social Foundations of Education</td>
<td>640</td>
</tr>
<tr>
<td>Urban Education, PhD</td>
<td>644</td>
</tr>
<tr>
<td>Engineering and Applied Science (College of)</td>
<td>647</td>
</tr>
<tr>
<td>Biomedical and Health Informatics</td>
<td>649</td>
</tr>
<tr>
<td>Biomedical and Health Informatics, PhD</td>
<td>650</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>656</td>
</tr>
<tr>
<td>Biomedical Engineering, BSE</td>
<td>657</td>
</tr>
<tr>
<td>Civil and Environmental Engineering</td>
<td>663</td>
</tr>
<tr>
<td>Civil Engineering, BSE</td>
<td>670</td>
</tr>
<tr>
<td>Structural Engineering, Minor</td>
<td>675</td>
</tr>
<tr>
<td>Computer Engineering, BSE</td>
<td>677</td>
</tr>
<tr>
<td>Computer Science</td>
<td>682</td>
</tr>
<tr>
<td>Computer Science, Minor</td>
<td>700</td>
</tr>
<tr>
<td>Computer Science, MS</td>
<td>700</td>
</tr>
<tr>
<td>Freshwater Sciences and Technology MS (Thesis)</td>
<td>702</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>704</td>
</tr>
<tr>
<td>Electrical Engineering, BSE</td>
<td>711</td>
</tr>
<tr>
<td>Electrical Engineering, Minor</td>
<td>715</td>
</tr>
<tr>
<td>Engineering and Applied Science (Graduate Programs)</td>
<td>716</td>
</tr>
<tr>
<td>Advanced Computational Imaging, Graduate Certificate</td>
<td>717</td>
</tr>
<tr>
<td>Energy Engineering, Graduate Certificate</td>
<td>718</td>
</tr>
<tr>
<td>Engineering MS: Biomedical Engineering</td>
<td>719</td>
</tr>
<tr>
<td>Engineering MS: Civil Engineering</td>
<td>721</td>
</tr>
<tr>
<td>Engineering MS: Electrical and Computer Engineering</td>
<td>722</td>
</tr>
<tr>
<td>Engineering MS: Energy Engineering</td>
<td>724</td>
</tr>
<tr>
<td>Engineering, MS: Engineering Management</td>
<td>726</td>
</tr>
<tr>
<td>Engineering MS: Engineering Mechanics</td>
<td>727</td>
</tr>
<tr>
<td>Engineering MS: Industrial and Systems Engineering</td>
<td>729</td>
</tr>
<tr>
<td>Engineering MS: Manufacturing Engineering</td>
<td>731</td>
</tr>
<tr>
<td>Engineering MS: Materials Engineering</td>
<td>733</td>
</tr>
<tr>
<td>Engineering MS: Mechanical Engineering</td>
<td>735</td>
</tr>
<tr>
<td>Engineering MS: Occupational Biomechanics/Ergonomics</td>
<td>736</td>
</tr>
<tr>
<td>Engineering, MS</td>
<td>738</td>
</tr>
<tr>
<td>Engineering, MS/Urban Planning, MUP</td>
<td>740</td>
</tr>
<tr>
<td>Engineering, PhD</td>
<td>741</td>
</tr>
<tr>
<td>Ergonomics, Graduate Certificate</td>
<td>743</td>
</tr>
<tr>
<td>Industrial and Manufacturing Engineering</td>
<td>745</td>
</tr>
<tr>
<td>Industrial Engineering, BSE</td>
<td>749</td>
</tr>
<tr>
<td>Industrial Engineering, Minor</td>
<td>752</td>
</tr>
<tr>
<td>Integrated BS-MS Degree</td>
<td>754</td>
</tr>
<tr>
<td>Materials Engineering</td>
<td>755</td>
</tr>
<tr>
<td>Materials Engineering, BSE</td>
<td>759</td>
</tr>
<tr>
<td>Materials Engineering, Minor</td>
<td>763</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>764</td>
</tr>
<tr>
<td>Mechanical Engineering, BSE</td>
<td>771</td>
</tr>
<tr>
<td>Mechanical Engineering, Minor</td>
<td>776</td>
</tr>
<tr>
<td>Freshwater Sciences (School of)</td>
<td>777</td>
</tr>
<tr>
<td>Applied Urban Aquaculture, Undergraduate Certificate</td>
<td>782</td>
</tr>
<tr>
<td>Freshwater Sciences and Technology MS (Thesis)</td>
<td>784</td>
</tr>
</tbody>
</table>
Freshwater Sciences and Technology MS: Professional Science Track .................................................. 786
Freshwater Sciences, PhD .................................................................................................................. 788
Health Sciences (College of) ........................................................................................................... 790
Biomedical Sciences ....................................................................................................................... 793
Biomedical Sciences, BS: Biomedical Science ............................................................. 802
Biomedical Sciences, BS: Cytotechnology ............................................................... 804
Biomedical Sciences, BS: Diagnostic Imaging Completion ................................... 807
Biomedical Sciences, BS: Diagnostic Medical Sonography .......................... 808
Biomedical Sciences, BS: Health Science Completion .................................... 811
Biomedical Sciences, BS: Medical Laboratory Science ................................. 813
Biomedical Sciences, BS: Public Health Microbiology .................................. 815
Biomedical Sciences, BS: Radiologic Technology ............................................... 818
Biomedical Sciences, MS ............................................................................................................. 820
Blood Banking/Immunohematology, Undergraduate Certificate .......................... 821
Death Investigation, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) .......................... 822
Forensic Science, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) ..................... 823
Forensic Toxicology, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) ..................... 823
Molecular Diagnostics, Undergraduate Certificate .............................................. 824
Nutritional Sciences, BS (Department of Biomedical Sciences) ..................... 825
Nutritional Sciences, Minor (Department of Biomedical Sciences) ............... 826
Communication Sciences and Disorders ............................................................ 828
Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Communication Sciences and Disorders) ............................................... 833
Communication Sciences and Disorders, BS ......................................................... 834
Communication Sciences and Disorders, MS ......................................................... 837
Food Studies, Undergraduate Certificate (College of Health Sciences) ......... 840
Health Informatics and Administration .............................................................. 842
Health Care Administration, BS ........................................................................ 848
Health Care Administration, Minor ................................................................. 850
Health Care Informatics, MS ............................................................................. 850
Health Care Informatics, MS/Library and Information Science, MLIS ............. 851
Healthcare Informatics, Undergraduate Certificate ........................................... 853
Health Professional Education, Graduate Certificate (College of Health Sciences) .......................................................... 855
Health Sciences ....................................................................................................................... 857
Health Sciences, PhD .................................................................................................................. 857
Interprofessional Graduate Certificate in Public and Population Health (College of Health Sciences) .................................................. 860
Kinesiology ......................................................................................................................... 862
Applied Gerontology, Graduate Certificate (College of Health Sciences, Department of Kinesiology) .................................................. 877
Athletic Training, MS ............................................................................................................ 878
Complementary and Integrative Health Approaches, Undergraduate Certificate .......................................................... 879
Healthy Aging, Undergraduate Certificate ................................................................. 879
Kinesiology, BS .................................................................................................................. 880
Kinesiology, Minor ........................................................................................................... 882
Kinesiology, PhD ............................................................................................................. 883
Kinesiology, MS ................................................................................................................. 884
Nutritional Sciences, BS (Department of Kinesiology) ............................................. 886
Nutritional Sciences, Minor (Department of Kinesiology) ........................................ 887
Occupational Science and Technology ................................................................. 889
Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) .................................................. 898
Occupational Studies, BS ............................................................................................ 899
Occupational Therapy MS: Assistive Technology and Accessible Design .................................................. 903
Occupational Therapy MS: Ergonomics ................................................................. 905
Occupational Therapy, MS ......................................................................................... 907
Therapeutic Recreation, Undergraduate Certificate .............................................. 908
Trauma Informed Care, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) .......................................................... 909
Physical Therapy .............................................................................................................. 911
Physical Therapy, DPT ........................................................................................................ 911
Pre-Professional Programs .......................................................................................................... 913
Pre-Physical Therapy .......................................................................................................... 913
Information Studies (School of) ...................................................................................... 914
Advanced Study in Archives and Records Administration, Graduate Certificate ........................................................................ 927
Advanced Study in Digital Libraries, Graduate Certificate ........................................ 928
Information Science and Technology, BS ............................................................. 929
Information Science and Technology, Minor ......................................................... 931
Information Science and Technology, MS ............................................................ 932
Information Science and Technology, MS/Library and Information Sciences, MLIS ........................................................................ 934
Information Studies, PhD ............................................................................................ 936
Library and Information Science MLIS: Archival Studies ........................................ 939
Library and Information Science MLIS: Information Organization ................ 942
Library and Information Science MLIS: Information Technology ................. 945
Library and Information Science MLIS: Public Library ........................................... 948
Library and Information Science, MLIS ................................................................. 951
Library and Information Science, MLIS/Anthropology, MS ............................. 955
Library and Information Science, MLIS/English, MA ........................................ 957
Library and Information Science, MLIS/Geography, MA .................................. 960
Library and Information Science, MLIS/Health Care Informatics, MS ................ 961
Library and Information Science, MLIS/History, MA .......................................... 963
Library and Information Science, MLIS/Information Science and Technology, MS ................................................................. 965
Library and Information Science, MLIS/Language, Literature, and Translation, MA ...................................................................................... 967
Library and Information Science, MLIS/Music, MM ........................................... 968
Library and Information Science, MLIS/Urban Studies, MS .............................. 970
Library and Information Science, MLIS/Women’s & Gender Studies, MA ......... 971
Letters and Science (College of) ........................................................................ 972
African and African Diaspora Studies .................................................................. 985
  African and African Diaspora Studies, BA ......................................................... 992
  Africology, Minor ......................................................................................... 996
  Africology, PhD ......................................................................................... 997
American Indian Studies ....................................................................................... 1000
American Indian Studies, Undergraduate Certificate ........................................... 1004
Anishinaabe Language, Undergraduate Certificate ............................................. 1005
Committee Interdisciplinary Major, BA: American Indian Studies ..................... 1006
Ancient Mediterranean Studies, Undergraduate Certificate ............................... 1010
Anthropology ....................................................................................................... 1012
  Anthropology, BA ...................................................................................... 1023
  Anthropology, Minor .................................................................................... 1027
  Anthropology, MS ..................................................................................... 1028
Anthropology, MS/Library and Information Science, MLIS ............................... 1030
Anthropology, PhD ............................................................................................ 1031
Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) ......................................................... 1032
Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) ......................................................... 1033
Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) ......................................................... 1034
Museum Studies, Graduate Certificate ................................................................ 1035
Art History .......................................................................................................... 1037
  Art History and Criticism, Minor .................................................................... 1046
  Art History, BA ............................................................................................ 1046
  Art History, MA .......................................................................................... 1050
Asian Studies, Undergraduate Certificate ......................................................... 1052
Biological Sciences ............................................................................................... 1055
  Biological Sciences, BA .............................................................................. 1065
  Biological Sciences, BS .............................................................................. 1070
  Biological Sciences, Minor ........................................................................... 1075
  Biological Sciences, MS ............................................................................. 1075
  Biological Sciences, PhD ............................................................................ 1077
Microbiology, BA ............................................................................................... 1078
Microbiology, BS ............................................................................................... 1083
Business and Technical Communications, Undergraduate Certificate ............... 1088
Celtic Studies ...................................................................................................... 1089
  Celtic Studies, Undergraduate Certificate ..................................................... 1090
Chemistry and Biochemistry ............................................................................. 1093
  Biochemistry, BA ...................................................................................... 1101
  Biochemistry, BS ...................................................................................... 1106
  Chemistry, BA ............................................................................................ 1111
  Chemistry, BS ............................................................................................ 1116
  Chemistry, Minor ....................................................................................... 1121
  Chemistry, MS ........................................................................................... 1122
  Course in Chemistry, BS ............................................................................ 1123
  Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) ................ .......... 1128
  Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) ......................... 1129
  Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) ......................... 1129
Childhood and Adolescence Studies, Undergraduate Certificate ....................... 1131
Communication ................................................................................................. 1133
  Communication, BA ................................................................................... 1142
  Communication, MA ................................................................................... 1146
  Communication, MA: Rhetorical Leadership ............................................... 1147
  Communication, Minor ................................................................................ 1149
  Communication, PhD .................................................................................. 1150
  Communication, PhD: Rhetorical Leadership ............................................... 1151
  Mediation and Negotiation, Graduate Certificate ......................................... 1153
  Rhetorical Leadership, Graduate Certificate ................................................. 1154
Conservation and Environmental Science ......................................................... 1156
  Conservation and Environmental Science, Minor ...................................... 1157
  Conservation and Environmental Sciences, BA ......................................... 1158
  Conservation and Environmental Sciences, BS ......................................... 1163
Courses Approved for the L&S International Requirement ................................. 1169
<table>
<thead>
<tr>
<th>Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>History, MA</td>
<td>1474</td>
</tr>
<tr>
<td>History, MA/Library and Information Science, MLIS</td>
<td>1476</td>
</tr>
<tr>
<td>History, MA: Public History</td>
<td>1477</td>
</tr>
<tr>
<td>History, Minor</td>
<td>1480</td>
</tr>
<tr>
<td>History, PhD</td>
<td>1483</td>
</tr>
<tr>
<td>Human Resources and Labor Relations</td>
<td>1486</td>
</tr>
<tr>
<td>Human Resources and Labor Relations, MHRLR (College of Letters and Science)</td>
<td>1487</td>
</tr>
<tr>
<td>International Human Resources and Labor Relations, Graduate Certificate</td>
<td>1488</td>
</tr>
<tr>
<td>International Studies</td>
<td>1490</td>
</tr>
<tr>
<td>International Studies, BA</td>
<td>1491</td>
</tr>
<tr>
<td>International Studies, Minor</td>
<td>1499</td>
</tr>
<tr>
<td>Journalism, Advertising, and Media Studies</td>
<td>1505</td>
</tr>
<tr>
<td>Journalism, Advertising, and Media Studies, BA</td>
<td>1511</td>
</tr>
<tr>
<td>Journalism, Advertising, and Media Studies, Minor</td>
<td>1515</td>
</tr>
<tr>
<td>Media Studies, MA</td>
<td>1516</td>
</tr>
<tr>
<td>Language, Literature &amp; Translation</td>
<td>1518</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: Classics</td>
<td>1524</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: Comparative Literature</td>
<td>1525</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: Classical Literature</td>
<td>1526</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: French and Francophone</td>
<td>1528</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: German Language, Literature, and Culture</td>
<td>1529</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: Interpreting</td>
<td>1530</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: Latin</td>
<td>1532</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: Linguistics</td>
<td>1533</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: Spanish and Hispanicophone Language, Literature, and Culture</td>
<td>1535</td>
</tr>
<tr>
<td>Language, Literature, and Translation MA: Translation</td>
<td>1536</td>
</tr>
<tr>
<td>Language, Literature, and Translation, MA</td>
<td>1539</td>
</tr>
<tr>
<td>Language, Literature, and Translation, MA/Business Administration, MBA</td>
<td>1541</td>
</tr>
<tr>
<td>Language, Literature, and Translation, MA/Library and Information Science, MLIS</td>
<td>1541</td>
</tr>
<tr>
<td>Translation, Graduate Certificate</td>
<td>1542</td>
</tr>
<tr>
<td>Latin American and Caribbean Studies</td>
<td>1545</td>
</tr>
<tr>
<td>Latin American and Caribbean Studies, Undergraduate Certificate</td>
<td>1546</td>
</tr>
<tr>
<td>Latin American, Caribbean, and U.S. Latin@ Studies</td>
<td>1550</td>
</tr>
<tr>
<td>Latin American, Caribbean, and U.S Latin@ Studies, BA</td>
<td>1552</td>
</tr>
<tr>
<td>Latino Studies</td>
<td>1558</td>
</tr>
<tr>
<td>Latino Studies, Undergraduate Certificate</td>
<td>1559</td>
</tr>
<tr>
<td>Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies</td>
<td>1562</td>
</tr>
<tr>
<td>Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate</td>
<td>1563</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>1565</td>
</tr>
<tr>
<td>Liberal Studies, MLS</td>
<td>1566</td>
</tr>
<tr>
<td>Linguistics</td>
<td>1568</td>
</tr>
<tr>
<td>Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate</td>
<td>1574</td>
</tr>
<tr>
<td>Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate</td>
<td>1576</td>
</tr>
<tr>
<td>Linguistics, BA</td>
<td>1577</td>
</tr>
<tr>
<td>Linguistics, MA</td>
<td>1580</td>
</tr>
<tr>
<td>Linguistics, MA: Teaching English to Speakers of Other Languages</td>
<td>1582</td>
</tr>
<tr>
<td>Linguistics, Minor</td>
<td>1583</td>
</tr>
<tr>
<td>Linguistics, PhD</td>
<td>1584</td>
</tr>
<tr>
<td>Mathematical Sciences</td>
<td>1586</td>
</tr>
<tr>
<td>Actuarial Science, BA</td>
<td>1605</td>
</tr>
<tr>
<td>Actuarial Science, Minor</td>
<td>1608</td>
</tr>
<tr>
<td>Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematics)</td>
<td>1609</td>
</tr>
<tr>
<td>Atmospheric Science, BS</td>
<td>1611</td>
</tr>
<tr>
<td>Atmospheric Science, Minor</td>
<td>1615</td>
</tr>
<tr>
<td>Atmospheric Science, MS</td>
<td>1615</td>
</tr>
<tr>
<td>Atmospheric Science, PhD</td>
<td>1616</td>
</tr>
<tr>
<td>Mathematics, BA</td>
<td>1618</td>
</tr>
<tr>
<td>Mathematics, BS</td>
<td>1622</td>
</tr>
<tr>
<td>Mathematics, Minor</td>
<td>1626</td>
</tr>
<tr>
<td>Mathematics, MS</td>
<td>1627</td>
</tr>
<tr>
<td>Mathematics, MS: Actuarial Science</td>
<td>1628</td>
</tr>
<tr>
<td>Mathematics, MS: Foundations of Advanced Studies</td>
<td>1629</td>
</tr>
<tr>
<td>Mathematics, MS: Industrial Mathematics</td>
<td>1630</td>
</tr>
<tr>
<td>Mathematics, MS: Statistics</td>
<td>1632</td>
</tr>
<tr>
<td>Mathematics, PhD</td>
<td>1634</td>
</tr>
<tr>
<td>Middle Eastern and North African Studies, Undergraduate Certificate</td>
<td>1636</td>
</tr>
<tr>
<td>Peace Studies &amp; Conflict Resolution</td>
<td>1638</td>
</tr>
<tr>
<td>Peace Studies and Conflict Resolution, Undergraduate Certificate</td>
<td>1638</td>
</tr>
<tr>
<td>Philosophy</td>
<td>1642</td>
</tr>
<tr>
<td>Ethics, Values, and Society (CEVS), Undergraduate Certificate</td>
<td>1649</td>
</tr>
<tr>
<td>Philosophy, BA</td>
<td>1651</td>
</tr>
<tr>
<td>Philosophy, MA</td>
<td>1654</td>
</tr>
<tr>
<td>Philosophy, Minor</td>
<td>1656</td>
</tr>
</tbody>
</table>
Physics ................................................. 1657
Physics, BS ........................................... 1666
Physics, Minor ...................................... 1670
Physics, MS ........................................... 1671
Physics, PhD ......................................... 1672
Political Science ..................................... 1674
Political Science, BA ................................ 1686
Political Science, MA ................................ 1690
Political Science, Minor ......................... 1691
Political Science, PhD .............................. 1692
Pre-Professional Programs ....................... 1694
Other Pre-Professional Health Study .......... 1694
Pre-Chiropractic .................................... 1694
Pre-Dentistry ....................................... 1695
Pre-Forestry (Wildlife Management) ......... 1696
Pre-Law .............................................. 1696
Pre-Medicine ....................................... 1697
Pre-Optometry ..................................... 1698
Pre-Pharmacy ..................................... 1699
Pre-Physician Assistant ......................... 1700
Pre-Podiatry ........................................ 1700
Pre-Veterinary Medicine ......................... 1701
Psychology .......................................... 1703
Psychology, BA ..................................... 1711
Psychology, BS ..................................... 1715
Psychology, Minor ................................. 1718
Psychology, MS ..................................... 1719
Psychology, PhD ................................... 1720
Public and Non-Profit Administration ......... 1724
Nonprofit Management and Leadership, MS 1728
(College of Letters and Science, Department 1728
of Public and Nonprofit Administration) ....
Nonprofit Management, Graduate Certificate 1729
(College of Letters and Science, Department 1729
of Public and Nonprofit Administration) ....
Public Administration, MPA (College of 1730
Letters and Science, Department of Public 1730
and Nonprofit Administration) ................
Public Administration, MPA/Criminal Justice, 1732
MS ....................................................
Public Administration, MPA/Urban Planning, 1733
MUP ....................................................
Quantitative Social Data Analysis, Undergraduate 1734
Certificate ...........................................
Religious Studies .................................... 1736
Religious Studies, BA .............................. 1738
Religious Studies, Minor ......................... 1741
Sociology ............................................. 1742
Sociology, BA ....................................... 1749
Sociology, MA ....................................... 1752
Sociology, Minor .................................... 1754
Sociology, PhD ...................................... 1754
Spanish and Portuguese ......................... 1757
Spanish, BA ......................................... 1768
Spanish, MA ......................................... 1772
Spanish, Minor ...................................... 1773
Spanish for Health Professionals, Undergraduate 1767
Certificate ...........................................
Translation and Interpreting Studies .......... 1775
Translation and Interpreting Studies, MA ...... 1776
Urban Studies ...................................... 1778
Urban Studies, BA ................................. 1782
Urban Studies, MS ................................ 1786
Urban Studies, MS/Library and Information 1787
Science, MLIS .....................................
Urban Studies, PhD ............................... 1788
Urban Studies, Undergraduate Certificate .... 1790
Women's and Gender Studies .................... 1792
Women's and Gender Studies, BA ............. 1795
Women's and Gender Studies, Graduate 1799
Certificate ...........................................
Women's and Gender Studies, MA ............ 1800
Women's and Gender Studies, MA/Library 1801
and Information Science, MLIS ..............
Women's and Gender Studies, MA/Social Work, 1802
MSW .................................................
Women's and Gender Studies, Minor .......... 1802
Nursing (College of) .............................. 1804
Clinical Nurse Specialist, Graduate Certificate 1821
Family Nurse Practitioner, Graduate Certificate 1823
Global Health, Undergraduate Certificate (College of Nursing) 1824
Health Professional Education, Graduate Certificate (College of Nursing) 1826
Interprofessional Graduate Certificate in Public and Population Health (College of Nursing) 1828
Nursing Practice, DNP ............................ 1830
Nursing Practice, DNP/Business Administration, MBA 1833
Nursing, BS ........................................ 1835
Nursing, MN ........................................ 1840
Nursing, PhD ...................................... 1842
Nursing, RN to BS Program ..................... 1844
Sustainable Peacebuilding, MSP ................ 1846
Trauma Informed Care, Graduate Certificate (College of Nursing) 1848
<table>
<thead>
<tr>
<th>Program</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Health (Joseph J. Zilber School of)</td>
<td>1850</td>
</tr>
<tr>
<td>Environmental Health Sciences, PhD</td>
<td>1860</td>
</tr>
<tr>
<td>Epidemiology, PhD</td>
<td>1862</td>
</tr>
<tr>
<td>Interprofessional Graduate Certificate in Public and Population Health (Zilber School of Public Health)</td>
<td>1864</td>
</tr>
<tr>
<td>Public Health MPH: Biostatistics</td>
<td>1866</td>
</tr>
<tr>
<td>Public Health MPH: Community and Behavioral Health Promotion</td>
<td>1869</td>
</tr>
<tr>
<td>Public Health MPH: Environmental Health Sciences</td>
<td>1872</td>
</tr>
<tr>
<td>Public Health MPH: Epidemiology</td>
<td>1875</td>
</tr>
<tr>
<td>Public Health MPH: Public Health Policy and Administration</td>
<td>1878</td>
</tr>
<tr>
<td>Public Health PhD: Biostatistics</td>
<td>1881</td>
</tr>
<tr>
<td>Public Health PhD: Community and Behavioral Health Promotion</td>
<td>1884</td>
</tr>
<tr>
<td>Public Health, MPH</td>
<td>1887</td>
</tr>
<tr>
<td>Public Health, PhD</td>
<td>1889</td>
</tr>
<tr>
<td>Social Welfare (Helen Bader School of)</td>
<td>1890</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>1893</td>
</tr>
<tr>
<td>Crime Analysis, Undergraduate Certificate</td>
<td>1898</td>
</tr>
<tr>
<td>Criminal Justice MS: Crime Analytics</td>
<td>1898</td>
</tr>
<tr>
<td>Criminal Justice, BS</td>
<td>1900</td>
</tr>
<tr>
<td>Criminal Justice, Minor</td>
<td>1902</td>
</tr>
<tr>
<td>Criminal Justice, MS</td>
<td>1902</td>
</tr>
<tr>
<td>Criminal Justice, MS/Public Administration, MPA</td>
<td>1903</td>
</tr>
<tr>
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</tr>
<tr>
<td>Death Investigation, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)</td>
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<tr>
<td>Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)</td>
<td>1906</td>
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<tr>
<td>Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)</td>
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<td>Military Science</td>
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<td>Applied Data Analysis Using SAS, Graduate Certificate</td>
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<td>Applied Gerontology, Graduate Certificate</td>
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<td>Social Work, MSW/Social Welfare, PhD</td>
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<td>Social Work, MSW/Women's and Gender Studies, MA</td>
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<td>Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work)</td>
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</tr>
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<td>Youth Work, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Social Work)</td>
<td>1934</td>
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<tr>
<td>Archive</td>
<td>1935</td>
</tr>
</tbody>
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ADMISSION AND COSTS

• Undergraduate Admission (p. 12)
• Graduate Admission (p. 17)
• International Admission (p. 18)
• Tuition and Fees (p. 19)
• Aid and Scholarships (p. 20)
ENGINEERING AND APPLIED SCIENCE

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

NURSING

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

Peck School of the Arts

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

Application Process

It is strongly recommended that you apply online (https://apply.wisconsin.edu). Most applicants find it faster and more convenient, and applications are received and processed much more quickly. To apply for admission as a new freshman, see the Freshman (p. 13) section of this page.

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

Four-Year Graduation Guarantee

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

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

Advising and Orientation for New Students

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

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

Summer Sessions Enrollment

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

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

Students enrolled at another college or university during the academic year who wish to attend UWM during the summer term only may qualify for admission as Summer Guest students. See the Non-degree (p. 15) section of this page for specific information.

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

Admission to Pre-professional Programs

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

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

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

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

Freshman Admission Policy Statement

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

Freshman Admission Standards

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

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

2. Completion of an appropriate college preparatory curriculum
Satisfactory completion of at least 17 credits (1 credit = 1 year) of high school courses, distributed as shown in the following chart, is the minimum expectation. Additional coursework beyond this minimum level is strongly encouraged and will increase the applicant’s likelihood of academic success at the university. Some academic programs have additional academic preparation requirements.
3. **Evidence of academic ability and readiness as demonstrated by academic performance in high school**
   All relevant academic factors are considered, including grades and grade point average; high school class rank (if available); choice of curriculum; and strength of the academic program relative to the course offerings available to the student in the high school.

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

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

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

**Transfer Student Admission and Acceptance of Transfer Credit**

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

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

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

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

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

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

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

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

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

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

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

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

**Application Deadlines for Transfer Students**

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

**Spring term:** Applications for the spring term (classes start in January) are typically accepted until December 15. However, some programs have earlier deadlines and/or requirements. Check our website (http://uwm.edu/undergrad-admission) for up-to-date information.

Earlier deadlines apply for certain programs and applications received after enrollment capacity has been reached may not be reviewed. The application priority date for Nursing and Architecture and Urban Planning is March 1 (for the subsequent fall term) or November 1 (for the spring term). For Art & Design or Music, apply by March 1 for scholarship consideration. Check our website (http://uwm.edu/undergrad-admission) for up-to-date information and for applicable deadlines for other terms.
Transfer Credit Acceptance
Credit is generally awarded for relevant and appropriate college-level coursework successfully completed at institutions accredited by a regional accrediting association. Credit also may be awarded for college-level work successfully completed at degree-granting institutions accredited by other national accrediting organizations that are recognized by the Council for Higher Education Accreditation (CHEA), assuming the provisions outlined below also are met. (Foreign institutions must be recognized by the Ministry of Education, or equivalent, of the home country.)

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

Additional transfer credit may be awarded to students who enter specific programs for which UWM has established articulation agreements or other program-specific transfer credit agreements, with a partner institution.

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

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

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

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

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

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

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

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

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

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

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

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

Who should apply as Undergraduate Non-degree Student?

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

60+ Auditors or Disabled Auditors: Request a packet to be mailed to you by calling 414-229-4672.

Who should not apply as an Undergraduate Non-degree

- If you are wanting to receive an undergraduate degree from UWM you should apply as a degree-seeking student. Please review
the transfer or new freshmen application process here (https://apply.wisconsin.edu).

- If you are considering graduate school, please meet with the graduate school to talk about required prerequisites prior to applying as an undergraduate non-degree student

**Non-degree Admission Guidelines**

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

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

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

**Non-degree Financial Aid**

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

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

**Information for Out-of-State Students**

Residency

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

**Minnesota/Wisconsin Reciprocity Agreement**

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

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

**Midwest Student Exchange Program**

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

**Milwaukee Advantage Program (MAP)**

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

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

**Special Admission Programs for Students Still Enrolled in High School**

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

**Placement Testing**

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

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

**Contact Information**

Office of Undergraduate Admissions
Vogel Hall, 3253 N Downer Ave

Phone: (414) 229-2222

http://uwm.edu/admission/
GRADUATE ADMISSION

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

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

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

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

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

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

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

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

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

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

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

A bachelor’s degree is required for admission.

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

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

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

International Student Admission

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

Contact Information

Center for International Education
Garland Hall, Room 138

Phone: (414) 229-4846
iss@uwm.edu

uwm.edu/cie/international-admissions/ (http://uwm.edu/cie/international-admissions)
TUITION AND FEES

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

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

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

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

uwm.edu/financialaid/ (http://uwm.edu/financialaid)
AID AND SCHOLARSHIPS

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

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

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

Contact Information

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

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

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

- Undergraduate Policies (p. 27)
- Graduate Policies (p. 22)
GRADUATE POLICIES

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

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

Refer to the Registrar’s Office Website (https://uwm.edu/registrar) for Add/Drop (Change of Registration) instructions and deadlines. Add/Drop forms are available online (http://uwm.edu/onestop/wp-content/uploads/sites/82/2017/06/registration_change_form.pdf).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Credit/No Credit Basis
You may not register for a course on a credit/no credit basis, except when a course is offered only for credit/no credit. (By definition, a grade of C- or above is required to receive credit under this type of registration.)
You can check your grades and other academic information on the PAWS Website (http://paws.uwm.edu).

Credit Requirements
Credit requirement information can be found in the following sections of this handbook: The Master’s Degree; Doctor of Philosophy Degree; and Financial Assistance, for requirements for recipients of Graduate School-administered awards or assistantships.

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

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

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

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

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

Requests to carry an overload will be considered if the student has a strong academic record and no outstanding incompletes. The request must be supported by the student’s advisor, who must verify that the student’s cumulative grade point average falls below 3.0 and the student’s cumulative grade point average falls below 3.0.

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

- The student’s cumulative grade point average falls below 3.0
- The student is not removed from probation status within three enrolled semesters
- The student does not satisfy course deficiencies within three enrolled semesters.

This action precludes registration for a subsequent semester.

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

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

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

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

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

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

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

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

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

Re-entry After Five-Year Absence
Students who want to re-enter a graduate degree program following a 5 year (or greater) absence must be able to demonstrate retention of knowledge from previous coursework taken for the degree. Additionally, instructors must verify that the course content has not changed significantly since the student completed the coursework. Students should list remaining course and degree requirements (e.g., thesis) to be completed for the degree and a timetable for completion. The request must be supported by the student’s advisor, who must verify that the timetable is reasonable, and the graduate program representative.
Other Policy Exceptions
For guidance on required elements to support other types of exceptions, contact the Assistant Dean of Graduate Education at 414-229-6569.

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

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

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

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

Grade Definitions and Requirements
Grades with associated grade points

<table>
<thead>
<tr>
<th>Grade</th>
<th>(Points per credit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.67</td>
</tr>
<tr>
<td>D+</td>
<td>1.33</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F+, F</td>
<td>0.00</td>
</tr>
</tbody>
</table>

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

Grades without associated grade points
- K: Pass
- E: Fail
- S: Satisfactory
- U: Unsatisfactory

Other course status designations
- I: Incomplete
- PI: Permanent Incomplete
- Credit: C- or above in credit/no credit course
- No Credit: Below C- in a credit/no credit course
- NC: Not Completed (audit courses only)
- P: Progress
- W: Withdrawal

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

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

Holds (Service Indicators)
A hold may be placed on your record for the following reasons:
- An unpaid debt to the University.
- Failure to maintain continuous registration (http://uwm.edu/graduateschool/doctoral-requirements/#continuous)
dissertator_enrollment) (dissertators only).
- Failure to show proof of insurance (international students only).
- Official transcript required for admission not received.
- Administrative obligation.

A hold on your record prohibits you from registering for classes, obtaining transcripts, or receiving your diploma. In addition, international students with holds cannot have non-immigrant papers processed by the Center for International Education (CIE).

You can check for holds on your record using the PAWS Website (http://paws.uwm.edu).

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

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

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

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

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You can check for holds on your record using the PAWS Website (http://paws.uwm.edu).

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

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

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

It is your responsibility to initiate a request for an Incomplete. Reasons for requesting the Incomplete must be acceptable to the instructor. If approved, the instructor will indicate the conditions for the removal of the Incomplete, including the date for submitting all remaining work. You are responsible for seeing that the Incomplete is removed by the deadline and that the instructor has reported the grade to the Graduate School.
The instructor may change the I to a grade (including an F) or to a PI (Permanent Incomplete) if the remaining work is not submitted by the deadline for completion.

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

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

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

**Major Professor as Advisor**
You must have a major professor from your chosen graduate program unit. Many graduate program units assign a temporary advisor to direct the entering student's work.

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

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

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

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

**Minnesota/Wisconsin Reciprocity Agreement**

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


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

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

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

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

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

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

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

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

**Permanent Incomplete**
See Incomplete Policy above.

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

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

You can apply via the Panthera Admission Application (https://graduateschool-apply.uwm.edu). A $20 processing fee is required for re-entry.

**Repeating Courses**

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

**Time Limit — Master’s**

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

**Time Limit — Doctoral**

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

**Transcripts**

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

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

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

**Guidelines**

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

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

Viewing Unofficial Transcripts Through PAWS

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

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

**Winter Session**

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

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

**Withdrawal**

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

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

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

Degree Requirements
The minimum number of credits required for graduation is 120, but many degree programs require 130 or more. Consult individual program pages in this catalog for the specific degree requirements associated with each program or major.

Class Standing/Level in School
Prerequisites for certain courses are determined by class standing. The chart below presents the number of credits for the different class standings.

<table>
<thead>
<tr>
<th>Class Standing</th>
<th>Business &amp; Information Studies</th>
<th>L&amp;S</th>
<th>Nursing</th>
<th>All Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore</td>
<td>24-55</td>
<td>24-55</td>
<td>28-57</td>
<td>24-57</td>
</tr>
<tr>
<td>Junior</td>
<td>56-85</td>
<td>56-87</td>
<td>58-95</td>
<td>58-85</td>
</tr>
<tr>
<td>Senior</td>
<td>86 or more</td>
<td>88 or more</td>
<td>96 or more</td>
<td>86 or more</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

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

Grade Point Average
The number of grade points earned in a course is computed by multiplying the points for the grade by the number of credits offered for the course. (Example: A B earned in a three-credit course would give you nine grade points.)

The general quality of a student’s work is expressed in terms of the grade point average (GPA). This is the total number of grade points earned divided by the total number of GPA credits. The highest possible average is 4.000 or an A in every subject.

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

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

**University-wide Academic Action Policy**

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

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

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

**Academic Drop**

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

**Incompletes**

You may be given an incomplete if you have carried a subject successfully until near the end of the semester but, because of illness or other unusual and substantiated cause beyond your control, have been unable to take or complete the final examination or to complete some limited amount of coursework. An incomplete is not given unless you prove to the instructor that you were prevented from completing the course requirements for just cause as indicated above.

Undergraduates are required to complete a course marked incomplete within the timeframe specified in the Incomplete Policy (S-31). If you do not remove the incomplete during this period, the report of I will lapse to F.

**Overloads**

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

**Repeating Courses**

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

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

A student will not be permitted to repeat any course more than once without the prior approval of the student's school/college advising office. Further restrictions apply. More information at uw.edu/onestop. The single repeat limit also applies to courses taken for audit or credit/no credit.

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

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

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

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

**Residence Credit Requirement**

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

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

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

Commencement Honors are listed on each Undergraduate program page.

Excess Credits Policy

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

Students Called to Military Service

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

Credit/No Credit Option

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

<table>
<thead>
<tr>
<th>School or College</th>
<th>Who qualifies?</th>
<th>Which course may be taken?</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture and Urban Planning</td>
<td>Pre-Architecture students and upper-level students with a 2.500 cumulative GPA.</td>
<td>Elective courses; courses other than the 48 credits required for the Architectural Studies degree.</td>
<td>Maximum of eight courses; one course per semester.</td>
</tr>
<tr>
<td>The Arts</td>
<td>Undergraduates in The Arts.</td>
<td>Courses outside the major. Any course that would fulfill the core curriculum requirements.</td>
<td>One course per semester; maximum of eight courses.</td>
</tr>
</tbody>
</table>

Education

Undergraduates in Education and Pre-Education.

Please see your advisor.

Please see your advisor.

Engineering and Applied Science

Undergraduates in Engineering and Applied Science.

Free elective or arts/humanities/social science elective courses.

Maximum of 12 credits; no more than three credits in any one semester.

Health Sciences

Undergraduates admitted to the College of Health Sciences.

No required courses in any of the pre-professional or professional programs may be taken on a C/NC basis.

Only one course, regardless of number of credits, may be taken per semester. A maximum of 12 credits may be taken C/NC.

Information Studies

Undergraduates in Information Resources.

All non-Information Studies (courses outside the School of Information Studies) that are not required as part of the student's major.

Maximum of eight courses; one course per semester.

Letters and Science

Undergraduates in Letters and Science.

Courses other than Honors courses that are not in the student's major or minor.

One course per semester; maximum of eight courses.

Nursing

Undergraduates in Nursing.

Non-clinical elective courses in Nursing.

Maximum of six credits; no more than one course per semester.
Undergraduate Policies

| Social Welfare | Undergraduate majors and pre-majors in Social Work and Criminal Justice. Only used in courses outside the 54-65 credit requirements in the Social Work or Criminal Justice major. One course per semester, maximum of eight courses. |

University Special and Off-Campus

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

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

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

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

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

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

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

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

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

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

### UWM Equal Opportunity Policy

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

UWM’s Discriminatory Conduct Policy (Including Sexual Harassment) (S-47) defines discrimination as conduct that

1. adversely affects any aspect of an individual’s employment, education, or participation in activities or programs at UWM; and
2. is based on one or more characteristics of the individual that are protected under federal, state, or local laws.

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

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

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

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

Speech or expressive behavior (e.g., use of visual, recorded, or written materials) used in the context of an instructional setting may be found to constitute harassment only if the speech is persistent, pervasive, and not germane to the subject matter, or so singularly severe as to create a hostile environment. Protected Expressive Behavior in an instructional situation is explained in UWM Selected Academic and Administrative Policies No. S-44, Public Expression of Opinion.
In addition, the University prohibits retaliation against individuals who engage in protected activities under the policy. Retaliation is defined as employment or academic decisions that are made because a student, employee, or applicant for employment has made a complaint, assisted with or served as a witness in an investigation, or instituted proceedings alleging discrimination.

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

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

Hate/Bias Incident Reporting

In the last few years, there has been an increased focus on the reporting of hate- and bias-motivated incidents on university campuses across the nation. UWM defines a hate- or bias-motivated incident as any disruptive conduct (oral, written, graphic, or physical) that is against an individual, or individuals, because of their actual, or perceived, race, color, national origin/ancestry, religion, sex, age, disability, sexual orientation, gender identity/expression, veteran and National Guard status, marital status, pregnancy, political affiliation, or arrest/conviction record. If you believe the incident involves criminal conduct, please call 911 or 9-911 (UWM campus police) from a UWM phone, in addition to completing the Hate/Bias Incident Reporting Form (https://www4.uwm.edu/eds/hatebias/form/index.cfm?aa1=edit). You may use this form to report any hate/bias incident that has occurred

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

University Policies and Programs Concerning Illicit Drugs and Alcohol

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

Please Note:

For the latest enrollment information, check online at our One Stop Enrollment and Financial Services (http://uwm.edu/onestop/degree-planning/transfer-credits/transferring-course-credits) site.

Eligibility to Enroll

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

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

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

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

For more information about the application and admission processes, see the Admission section (https://www4.uwm.edu/academics/undergraduatecatalog.cfm?u=Admission.html) of this catalog.

Academic Advising Prior to Enrollment

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

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

Enrollment Procedures and Deadlines

The initial enrollment cycle begins in October for the winter term, November for the spring term, March for the summer term, and April for the fall term. The Schedule of Classes may be viewed online at uwm.edu/schedule (http://www4.uwm.edu/schedule).

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

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

Details about the enrollment process, deadlines for a particular term, and penalties for late enrollment are described at O (http://uwm.edu/onestop)ne Stop (http://uwm.edu/onestop/enrolling/eligibility-to-enroll/#appointment). Please ensure that you are taking advantage of your earliest opportunity to enroll, as well as complying with necessary procedures and deadlines.
Priority Enrollment Appointments

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

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

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

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

Change of Enrollment/Add and Drop or Withdrawal from Classes

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

Late Enrollment and Late Payment Fees

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

Concurrent Enrollment

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

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

ID Cards

UW System regulations require that each student have a picture ID card. This card is used in the UWM Library, the Klotsche Center, the Union, and other places to verify student status and eligibility for participation or service. Students are expected to obtain their ID during their first semester at UWM. ID cards may be obtained in the PantherCard Office, Union 143.

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

Program Integrity

Pursuant to the U.S. Department of Education’s Program Integrity Rule, the University of Wisconsin-Milwaukee is required to provide all prospective and current students with the contact information of the state agency or agencies that handle complaints against postsecondary educational institutions offering distance learning or correspondence education within that state. Students are encouraged to utilize the institution’s internal complaint or review policies and procedures through the Dean of Students Office (http://uwm.edu/deanofstudents/assistance/complaints-and-grievances) or Office of the Provost (https://uwm.edu/academicaffairs) (414-229-3203) prior to filing a complaint with the state agency or agencies. This link (http://www.sheeo.org/sites/default/files/project-files/Complaint%20Process%20Links.pdf) provides a list of contacts in each state with whom a student may file a complaint.

Online Program Information

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

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

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

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

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

Maryland
UWM is registered with the Maryland Higher Education Commission. UWM is subject to investigation of complaints by the Office of the Attorney General of the Maryland Higher Education Commission (MHEC).

Contact information for MHEC:
Maryland Higher Education Commission
6 N. Liberty Street, 10th Floor
Baltimore, Maryland 21201
Minnesota
UW-Milwaukee is registered as a private institution with the Minnesota Office of Higher Education pursuant to Minnesota Statutes, sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. Credits earned at the institution may not transfer to all other institutions.

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

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

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

Specific GER requirements are as follows:

Competency Requirements

Oral and Written Communication (OWC) Competency

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

1. earning at least three credits with a grade of C or higher in ENGLISH 1021; or
2. transferring at least three credits with a grade of C or higher in a course equivalent to ENGLISH 102 or higher level expository writing course1; or
3. achieving an appropriate score on the English Placement Test (EPT).

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

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

Quantitative Literacy (QL) Competency

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

1. earning at least three credits with a grade of C or higher in MATH 102, MATH 103 (formerly 106), MATH 105, MATH 108, MATH 111/PHILOS 111, MATH 175, or equivalent courses1; or
2. achieving a placement code of at least 30 on the mathematics placement test.

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

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

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

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

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

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

**Exceptions to GER**

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

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

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

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

• Honors College (p. 36)
• Undecided Students (p. 38)
• UWM Online (p. 39)
• Academic Enrichment (p. 40)
• Catalog Glossary (p. 43)
HONORS COLLEGE

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

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

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

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

Continuing UWM and transfer students should have a cumulative GPA equivalent to their academic standing (see Requirements (p. 36)) and have met the University English requirement by testing out of, or receiving a B- or better, in ENGLISH 102. Interested continuing and transfer students should contact the Honors College to schedule an appointment with an Honors advisor to discuss how the curriculum can be integrated into their academic plans.

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

1. To continue in the Honors College, students must maintain the following minimum grade point averages for work done at UWM by the beginning of their year in school:
   - Freshman (after first semester) 3.0
   - Sophomore 3.3
   - Junior 3.4
   - Senior/to graduate with an Honors degree 3.5

2. Students admitted as new freshmen who need to complete the University English Requirement must complete Honors 200 in the first semester following their completion of the English Requirement.

3. Students who do not take Honors courses for two consecutive semesters will be considered "inactive" and dropped from the Honors College.

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

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

Regaining Honors College Eligibility
1. Students who become ineligible by failing to maintain the minimum grade point average may apply for reinstatement if they subsequently raise their grade point average to the required level.

2. Students who become ineligible after two consecutive semesters with no Honors courses may apply for reinstatement.

3. In either case, students applying for reinstatement must indicate in writing how they propose to complete Honors requirements before graduation.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
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<td>HIST 399</td>
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<td>HIST 350</td>
<td>Honors Seminar in the Humanities:</td>
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<td>HIST 351</td>
<td>University Honors Seminar in the Social Sciences:</td>
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<tr>
<td>HIST 352</td>
<td>Honors Seminar in the Natural Sciences:</td>
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<td>HIST 380</td>
<td>Honors Seminar in the Arts:</td>
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<tr>
<td>PSYCH 380</td>
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</table>
With the exception of HONORS 200 and HONORS 380, Honors seminars are retakable with a change in topic to a maximum of 9 credits. HONORS 200 and HONORS 380 are retakable once.

**Advanced Independent Study**

Independent study courses are offered through the Honors College and through academic departments across campus. Course numbers and prerequisites vary by department.

- HONORS 685 Honors Tutorial
- HONORS 686 Research in Honors
- *HONORS 687 Senior Honors Project
- *HONORS 689 Senior Honors Thesis

*Students may not do both a Senior Thesis and a Senior Project.*

**Graduate Courses**

Courses at the 700 level and above may be counted toward the Honors College graduation requirements. This option normally is open only to seniors in the program who meet the necessary prerequisites. Permission for an Honors student to take a graduate course must be obtained from the instructor of the course, the department chair, the dean of the appropriate school/college, and the Honors College director.

**Other Options**

A maximum of 9 Honors credits earned at other universities may be applied to the Honors College graduation requirements with the director's approval. Honors credits also may be earned through approved Study Abroad Programs.

**Graduating with Honors**

All UWM Undergraduate Schools and Colleges offer the Honors Degree, a special diploma awarded to students who complete Honors College requirements. Students who complete six credit options of Senior Thesis, Senior Honors Project, or Research in Honors, receive a special "Honors with Distinction" degree.

Graduating with an Honors Degree provides convincing evidence of outstanding academic achievement, a valuable accomplishment students can note on resumes and graduate school applications.

**Graduation Requirements**

An Honors Degree requires 21 Honors credits and at least a 3.5 cumulative grade point average at graduation. All Honors credits count toward the total credits required for graduation. Students must earn a grade of B- or better to receive Honors credit for a course. At least 12 of the 21 Honors credits must be earned at UWM, with at least 9 credits in upper-level Honors seminars at UWM.

Students who plan to graduate "Honors with Distinction" need to successfully complete one of the following courses for two consecutive semesters, to a total of six credits: HONORS 686, HONORS 687, or HONORS 689.

**Contact Information**

Honors College
Starting college undecided is extremely common. Nearly 1 in 4 new students at UWM haven't chosen a major. Our specialized advisors will guide you in your course selection, allowing you to explore your options while keeping you on track for a timely graduation.

Our undecided students choose from six exploratory pathways called metamajors, that allow you to explore multiple majors focused around a general academic theme. Our six metamajors are

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

For more information about these metamajors, including potential majors and career outcomes, visit uwm.edu/undecided (http://uwm.edu/undecided).
UWM ONLINE

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

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

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

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

Office of Central Advising
The Office of Central Advising (OCA) serves as the gateway for two important groups of students – new undergraduate freshmen and transfer students who are undecided about their future majors or paths to graduation, and new freshmen whose prior academic record and experiences indicate a likelihood of success if given individualized support and the opportunity to demonstrate their commitment. The OCA facilitates and supports the academic growth of students and their transition and inclusion in university life.

When a student is admitted via the OCA, the advisor becomes the student’s first point of contact, and begins to build that relationship with each student from that first meeting. The advisor serves as an advocate for the student and liaison with campus support offices, and helps the student interpret placement test scores and enroll in classes. S/he also encourages tutoring when necessary, informs students of university policies and procedures, serves as a referral source, helps students gain information about financial aid, and provides other information as needed to succeed at UWM.

In addition, students may choose support from one or more multicultural offices (http://www4.uwm.edu/msc) within OCA, and can benefit from services provided by these offices, as well.

For more information, please contact the Office of Central Advising at (414) 229-4696, or visit us in Mitchell Hall, Room 177.

Military Science Program

Army ROTC
UW-Milwaukee students have the opportunity to participate in the Army Reserve Officers Training Corps (AROTC) at Marquette University. The AROTC program provides university students with leadership, management, technical, and tactical skills that will enable them to start their journey as commissioned officers in the United States Army, Army Reserve, or Army National Guard.

Army ROTC is not a major field of study. It is a program in which students pursue a baccalaureate degree of their choice and take AROTC courses in military-oriented subject matter. AROTC provides a general knowledge of the contemporary role of the Army in support of national objectives and a practicum in management and leadership skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program offers competitive two-, three-, and four-year scholarships to qualified students. Currently, the scholarships offered for UWM students cover full tuition and fees or room and board, $1,200 a year for books, and a $300-$500 monthly stipend.

General Eligibility
To be eligible for an AROTC scholarship, students must:

• Be a United States citizen;
• Be a full-time student;
• Have no major civil convictions;
• Not be a conscientious objector;
• Be medically qualified;
• Have a minimum 2.5 GPA; and
• Have a minimum ACT score of 19 or SAT score of 950.

The Army ROTC program is divided into two parts: the basic course (freshman and sophomore years) and the advanced course (junior and senior years). The freshman year course currently is being offered at UWM; the remainder of the courses are offered at Marquette University. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

Basic Course
In the basic course, cadets learn basic military skills and receive the foundation for leadership and management skills that are expanded during the advanced course. The basic course is open to all full-time UWM students without any obligation to the Army.

Advanced Course
During the advanced course, cadets learn more extensive leadership and management skills, and they are placed into various leadership positions in the battalion. Cadets also develop skills and attributes that are essential for all commissioned officers in the U.S. Army.

In addition to completing the military science courses, advanced-course students are required to attend the Advanced Leadership Course at Fort Lewis, Washington, during the summer between the junior and senior years. During this five-week camp, cadets are expected to apply all of the skills that they have learned in the AROTC program. In addition, cadets are offered the opportunity to compete for a chance to attend Airborne School, Air Assault School, or Cadet Troop Leadership Training (CTLT). CTLT is an "internship" in which cadets have a chance to see what a Second Lieutenant does on an active duty Army post.

To qualify for the Advanced Course, students must accomplish one of the following:

• Complete the two years of the basic course;
• Attend the Basic Leaders Course, a six-week camp at Fort Knox, Kentucky; or
• Complete U.S. Army Basic Training or its equivalent.

Field Exercises
Once a semester, all of the cadets in the program go to Fort McCoy, Wisconsin, to practice all of the skills that they have learned. Advanced course cadets also are given the opportunity to improve their leadership skills by being placed in various leadership positions leading other cadets.

Physical Training
Three times a week, cadets are required to attend physical training (PT). During PT, cadets do physical activities such as push-ups, sit-ups, and running. PT currently is conducted at both UWM and Marquette University.

For more information about enrolling in the Army ROTC program, contact army-rotc@uwm.edu or the Department of Military Science at Marquette University, (414) 288-7195, or www.marquette.edu/rotc/army (http://www.marquette.edu/rotc/army).

Air Force ROTC
UW-Milwaukee students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled
in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four- and three-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course.

General Eligibility
- Be a full-time student;
- Be a United States citizen (for scholarship appointment);
- Be in good physical condition;
- Be of good moral character;
- For pilot or navigator training, fulfill all commissioning requirements before age 29;
- For scholarship recipients, fulfill all commissioning requirements before age 31; and
- For non-scholarship students, fulfill all commissioning requirements before age 31.

General Military Course
The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

Field Training
AFROTC Field Training is offered during the summer months at Maxwell Air Force Base, Alabama, and provides leadership and officer training in a structured military environment. Major areas of study include physical training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

Professional Officer Course
The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a non-taxable subsistence allowance per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

Leadership Lab
Leadership Lab is a cadet-centered activity. It is largely cadet-planned and -directed, in line with the premise that it provides leadership training experience that will improve a cadet’s ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information, and other services that will increase the performance and motivation of other cadets.

AFROTC College Scholarship and High School Scholarship Programs
While participating in AFROTC, scholarship students receive a stipend per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:
- Be a U.S. citizen;
- Be at least 17 years of age on the date of enrollment and under 31 years of age on December 31 of the estimated year of commissioning;
- Pass an Air Force physical exam;
- Be selected by a board of Air Force officers;
- Have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious objectors);
- Maintain a 2.5 grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year. Information on Air Force ROTC and applications for Air Force scholarships are available at www.AFROTC.com (http://www.afrotc.com). Scholarship applications will not be accepted after December 1 of the year before entering college.

For more information, contact the Department of Aerospace Studies at Marquette University, (414) 288-7682.

Naval ROTC
The Naval Science Department at Marquette University administers the Naval Reserve Officers Training Corps (NROTC) program. Graduates who complete all requirements will receive reserve commissions and serve on active duty in the Navy or Marine Corps with a minimum three-year commitment for non-scholarship students and five-year commitment for scholarship students.

Scholarships
NROTC offers two-, three-, and four-year scholarships to qualified applicants. Four-year scholarships are awarded on a national level to qualified high school applicants (visit www.nrotc.navy.mil (http://www.nrotc.navy.mil) for more information and to apply). Two- and three-year scholarships are awarded to students who have completed at least one, but not more than four, terms of college while a member of the NROTC Unit. Two-year scholarships for students who are entering their junior year and have not previously been enrolled in the NROTC program also are available.

Students entering UWM with a four-year scholarship, earned on a competitive basis while still in high school, will receive full tuition, fees, laboratory expenses, a stipend for books, and a subsistence allowance of $250 to $400 per month, depending on class year. Necessary uniforms and textbooks for required Naval Science courses are issued as well.
**General Eligibility**

- Be a U.S. citizen;
- Not less than 17 years old by Sept. 1 of year starting college, and no more than 23 on June 30 of that year;
- Be of good moral character;
- Be a high school graduate;
- Be 27 or younger by June 30 of the year you will graduate;
- Be physically qualified by Navy/Marine Corps standards; and
- Achieve qualifying scores on the SAT or ACT
  - **ACT:** 22 verbal, 22 math (22 composite for Marine Corps)
  - **SAT:** 530 verbal, 520 math (1000 composite for Marine Corps).

Students not on scholarship can still participate in the NROTC College Program. They receive uniforms and Naval Science textbooks, and $350 and $400 per month during their junior and senior years, respectively. All College Program students are eligible to compete for Naval Education and Training Command scholarships. Students are selected on a competitive basis after completing at least one term as an NROTC College Program student. Selection boards meet semiannually in March and June to consider students based on their most recent term. Students may receive scholarship benefits for three or two academic years. Once selected, the students receive the same benefits and incur the same active duty requirements as students in the four-year scholarship program.

The Naval Science Department teaches Naval Science courses and supervises a midshipman-run drill program that instills leadership skills and professional development in all members of the midshipman battalion. All midshipmen are required to register for and participate in this two-hour weekly drill period, which occurs at the Marquette University Gymnasium. One Naval Science class each term is also required, with the exception of Nurse Corps and Marine Corps Options. Students enrolled in the program from UWM attend Naval Science classes at Marquette as "cross-town" students, while the rest of their major is completed on the UWM campus. Midshipmen on scholarship or in advanced-standing status also are required to attend a four- to six-week training period each summer. This summer training introduces midshipmen to the fleet and to the life of a junior Naval Officer. The summer training period also provides an orientation to each of the different warfare specialties available upon graduation (aviation, surface, submarine, and the Marine Corps).

All Navy Option scholarship students are required to complete one year of calculus by the end of their sophomore year, and one year of calculus-based physics by the end of their junior year. Navy Option college program students must complete one year each in mathematics and physical science. One course on World Cultural Awareness, one year of English, and either an American Military History or National Security Policy course also are required for all NROTC students.

All scholarships are awarded on the basis of merit and personal qualifications. Neither a Parents’ Confidential Financial Statement nor a standard FAF is required for consideration for Naval ROTC scholarships.

For more information, contact the Department of Naval Science at Marquette University, (414) 288-7076, or visit our website at www.marquette.edu/rotc/navy (http://www.marquette.edu/rotc/navy).
CATALOG GLOSSARY

Key to Course Numbering System

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

300-699 Upper division courses that may, if so designated, carry graduate credit. Courses with level "U" are offered for undergraduate credit only; courses with level "U/G" may be offered for undergraduate and/or graduate credit. Insofar as a course approved for graduate credit may not be offered for graduate credit in a given semester, the current schedule of classes (http://www4.uwm.edu/schedule) should be consulted. Junior standing is normally a minimum prerequisite for 300-699 courses that carry graduate credit.

Abbreviations in Course Descriptions

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Prerequisite Course Definitions

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

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

P-Prerequisite: A course in which a student is required to earn credit prior to being allowed to enroll in a subsequent higher level course. A prerequisite course may not be taken for credit subsequent to the earning of credit in the higher level course.

Ex.: PSYCH 205 Personality . . . Prereq: PSYCH 101 (P). Students must earn credit in PSYCH 101 before enrolling in PSYCH 205, and may not receive credit for PSYCH 101 after enrolling in PSYCH 205.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Departments and Programs

- Architecture (p. 45)
  - Architectural Studies, BS (p. 52)
  - Architectural Studies, Minor (p. 55)
  - Architecture, MArch (p. 61)
  - Architecture, MArch/Urban Planning, MUP (p. 63)
  - Architecture, MArch: Ecological Design (p. 55)
  - Architecture, MArch: Preservation Studies (p. 57)
  - Architecture, MArch: Real Estate Development (p. 59)
  - Architecture, MS (p. 64)
  - Architecture, PhD (p. 65)
- Urban Planning (p. 67)

- Geographic Information Systems, Graduate Certificate (School of Architecture and Urban Planning) (p. 71)
- Urban Planning, MUP (p. 77)
- Urban Planning, MUP/Architecture, MArch (p. 78)
- Urban Planning, MUP/Engineering, MS (p. 79)
- Urban Planning, MUP/Public Administration, MPA (p. 80)
- Urban Planning, MUP Geographic Information Systems (p. 73)
- Urban Planning, MUP Real Estate Development (p. 75)
- Urban Planning, Undergraduate Certificate (p. 81)

Requirements for Employment, Licensing, or Professional Organizations

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

Administration

Robert Greenstreet
Dean

Gil Snyder
Associate Dean

Maureen Zell
Associate Dean

Joan Simuncak
Assistant Dean, Student Affairs
Graduate Advisor

Tammy Taylor
Undergraduate Administrator, Student Affairs

Contact Information

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

Phone: (414) 229-4015
Phone: (414) 229-4014
sarup-ugrad@uwm.edu
sarup-grad@uwm.edu
uwm.edu/sarup (http://uwm.edu/sarup)
ARCHITECTURE

The Department of Architecture remains steadfastly committed to a tectonic conception of architectural practice. Students learn how to put a building together and how to derive formal poetics from constructive assembly. This passionate commitment to conventional tectonics is complemented and challenged by many avenues of experimentation and research that confront professional norms. Elective courses propose alternative practices and theories for architecture by speculating on thermodynamic form, cultural geography, performative envelopes, digital prototyping, and new ecological and programmatic compositions for water management. Sponsored studios leverage expertise from the professional community in unique partnerships that benefit students and also have an impact on the community and region—in many cases through constructed works.

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

Students in the School of Architecture and Urban Planning (SARUP) are passionate about architecture, and accomplished and dedicated faculty and alumni work tirelessly to provide the best experience to those they are mentoring. SARUP students benefit by studying in a small and strong school that offers individual attention and guidance within the context of an urban campus in a culturally vibrant city.

• Architectural Studies, BS (p. 52)
• Architectural Studies, Minor (p. 55)
• Architecture, MArch (p. 61)
• Architecture, MArch/Urban Planning, MUP (p. 63)
• Architecture, MArch: Ecological Design (p. 55)
• Architecture, MArch: Preservation Studies (p. 57)
• Architecture, MArch: Real Estate Development (p. 59)
• Architecture, MS (p. 64)
• Architecture, PhD (p. 65)

Limitations

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

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

Accident and Health Insurance

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

Architecture Courses

ARCH 100 Architectural Making I
3 cr. Undergraduate.
An introductory course about architecture and architectural making. 2D and 3D form and space tested through the theoretical, pragmatic, and contextual issues that influence architecture.
Prerequisites: none.
General Education Requirements: A
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 101 Introduction to Architectural Theory
3 cr. Undergraduate.
A survey of architectural design theory through research analysis and criticism of works and ideas of significant architects and architectural theorists.
Prerequisites: none.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

ARCH 102 Architectural Thinking I
3 cr. Undergraduate.
Broad overview of the histories and theories that have shaped the discipline of architecture: its histories, theories and methodologies.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ARCH 103 Architectural Making II
3 cr. Undergraduate.
Survey and application of twentieth century design techniques in architecture.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ARCH 104 Architectural Thinking II
3 cr. Undergraduate.
Canonical buildings since 1800 alongside their accompanying theoretical texts are evaluated within the discipline and allied fields of inquiry.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ARCH 110 New Student Orientation
1 cr. Undergraduate.
An overview of the School of Architecture and Urban Planning, the architecture and urban planning professions, academic requirements, and student resources.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ARCH 190 Special Topics
1-3 cr. Undergraduate.
Presentation of new material on experimental basis. Material appropriate for testing interest and ability in architecture. Specific credits and any prerequisites announced in Schedule of Classes whenever course is offered.
Prerequisites: none. 
Course Rules: May be retaken w/chg in topic to 9 cr max. 
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 282 Visualization 1
3 cr. Undergraduate.
Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing.
Prerequisites: acceptance to Level 2; or cons instr. 
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 283 Visualization 2
3 cr. Undergraduate.
Exploration of the potential for representation to communicate generative, atmospheric, and presentational qualities.
Prerequisites: Arch 282(P). 
Current Offerings: http://uwm.edu/schedule

ARCH 300 Architectural History and Theory
3 cr. Undergraduate/Graduate.
Introduction to architectural history and its theoretical base. The course covers classical architecture to the present, focusing on the theories underlying architecture of a period.
Prerequisites: acceptance to Level 2 or arch studies minor; or grad st. 
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014. 
Current Offerings: http://uwm.edu/schedule

ARCH 301 Architecture Systems 1
3 cr. Undergraduate/Graduate.
The behavior of structures, structural materials and planning, and the principles and performance of building envelope systems.
Prerequisites: acceptance to level 2 or arch studies minor; or grad st. 
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015. 
Current Offerings: http://uwm.edu/schedule

ARCH 302 Architecture and Human Behavior
3 cr. Undergraduate/Graduate.
Introduction to behavioral, social and cultural factors and their implications for the design and planning of the built environment.
Prerequisites: jr st & acceptance to level 2 or arch studies minor; or grad st. 
Current Offerings: http://uwm.edu/schedule

ARCH 303 Architecture Systems 2
3 cr. Undergraduate/Graduate.
Investigation of environmental control and life safety requirements and their implications on architectural form and design.
Prerequisites: acceptance to level 2 or arch studies minor; or grad st. 
Current Offerings: http://uwm.edu/schedule

ARCH 304 Contemporary Criticism and Urbanism
3 cr. Undergraduate/Graduate. 
Disciplinary methods and themes through rigorous readings of texts and objects concerning contemporary architectural criticism, and histories and theories of urban form and urban planning.
Prerequisites: jr st. 
Last Taught: Fall 2017. 
Current Offerings: http://uwm.edu/schedule

ARCH 310 Fundamentals of Architectural Design I
6 cr. Undergraduate.
Formal concepts that order the production of architecture, using physical and virtual models, sketches, and drafted, scaled, orthographic drawings. Issues related to site, function and environment.
Prerequisites: acceptance to Level 2. 
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014. 
Current Offerings: http://uwm.edu/schedule

ARCH 320 Fundamentals of Architectural Design II
6 cr. Undergraduate.
Architectural design as a synthetic discipline that considers material/ spatial experience, contextual analysis, formal concepts, and social/ cultural relationships. Material/graphic representation explored in models, drawings, collage and renderings.
Prerequisites: Arch 310(P). 
Current Offerings: http://uwm.edu/schedule

ARCH 340 Urban Design
3 cr. Undergraduate/Graduate. 
Survey of urban design, including the study of precedents, recent philosophy, design vocabulary, behavioral responses, and implementation strategies.
Prerequisites: jr st; acceptance to Level 2 or arch studies minor & Arch 300(P); or grad st. 
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2011. 
Current Offerings: http://uwm.edu/schedule

ARCH 350 Greening Milwaukee
3 cr. Undergraduate. 
City wide environmental organizations are organized into lecture series on the state of sustainable issues. Thirty hours of service are required.
Prerequisites: soph st. 
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013. 
Current Offerings: http://uwm.edu/schedule

ARCH 380 Drawing in Architecture
3 cr. Undergraduate/Graduate. 
Visual communication skills are developed in relation to basic design theory and architectural design process.
Prerequisites: jr st & acceptance to level 2 or arch studies minor; or grad st. 
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014. 
Current Offerings: http://uwm.edu/schedule

ARCH 382 Introduction to Building Information Modeling (BIM)
3 cr. Undergraduate/Graduate. 
Principles of Building Information Modeling and the interface and workflow of Autodesk's Revit.
Prerequisites: jr st & acceptance to level 2 or arch studies minor; or grad st. 
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016. 
Current Offerings: http://uwm.edu/schedule
ARCH 383 Landscape Architecture
3 cr. Undergraduate/Graduate.
Introduction to the history of landscape architecture as well as the
process of contemporary landscape architecture and its relationship to
contemporary architecture.
Prerequisites: jr st & acceptance to level 2 or arch studies minor; or grad
st.
Current Offerings: http://uwm.edu/schedule

ARCH 390 Special Topics:
1-3 cr. Undergraduate.
Provides a format for the development and presentation of new material.
Specific credits and any additional prerequisites announced in Schedule of
Classes whenever course is offered.
Prerequisites: jr st; acceptance to Level 2 or arch studies minor.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Current Offerings: http://uwm.edu/schedule

ARCH 391 Directed Research
3 cr. Undergraduate.
Student participation in research projects under faculty supervision.
Prerequisites: jr st; acceptance to Level 2 or arch studies minor & cons
instr.
Course Rules: May not be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 392 Independent Studies
3 cr. Undergraduate.
Independent investigation of issues related to architecture.
Prerequisites: jr st; acceptance to Level 2 or arch studies minor & cons
instr.
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule

ARCH 410 Architectural Design I
6 cr. Undergraduate.
Design projects explore basic issues: clients' needs; site planning;
masonry, wood, and steel construction; health and safety. Composition
employs analysis of precedent.
Prerequisites: Arch 320(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 420 Architectural Design II
6 cr. Undergraduate.
Design projects explore complex contexts and programs. Solutions
employ hybrid construction technologies, and codes for safety and
accessibility; they also integrate interior and exterior spaces.
Prerequisites: Arch 410(P).
Current Offerings: http://uwm.edu/schedule

ARCH 497 Study Abroad:
3-12 cr. Undergraduate.
Study and/or field study designed to provide relevant course work for a
study abroad program in architecture.
Prerequisites: acceptance to Level 2 or arch studies minor & Study Abroad Program.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ARCH 510 Survey of Structural Analysis and Design
3 cr. Undergraduate/Graduate.
Statics, strength of materials and analysis of simple structural elements
and systems. Design and economics of simple building structures.
Prerequisites: sr st & Arch 301(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 516 Building Construction
3 cr. Undergraduate/Graduate.
Review and analysis of architectural construction systems in relation to
building projects of various scales. Construction techniques and contract
documentation are covered.
Prerequisites: sr st; Arch 301(P) & Arch 410(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 520 Environmental Systems: Illumination and Thermal Comfort
3 cr. Undergraduate/Graduate.
The impact of visual and thermal comfort requirements on the design of
building enclosures, lighting systems and HVAC systems.
Prerequisites: sr st, Arch 301(P) & 303(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 521 Environmental Systems: Resources-Fluid Distribution Systems
3 cr. Undergraduate/Graduate.
Water resources supplies and treatment, distribution and disposal systems. Atmospheric and thermal comfort. Air treatment, distribution
systems, and related energy systems for human comfort.
Prerequisites: sr st & Arch 303(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 522 Environmental Systems: Lighting and Acoustical Design
3 cr. Undergraduate/Graduate.
The development and application of visual/auditory comfort criteria, lighting and acoustical design, and their architectural design
implications.
Prerequisites: sr st & Arch 303(P); or grad st.
Last Taught: Fall 2015, Spring 2013, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ARCH 533 Topics in Architectural Theory:
3 cr. Undergraduate/Graduate.
This variable content course will focus on the study of a particular
architectural theory or the work of an individual architect and its
theoretical base.
Prerequisites: sr st & Arch 300(P) or grad st.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ARCH 534 Field Study
3 cr. Undergraduate/Graduate.
Theoretical developments and their historical contexts are explored in a
particular setting. Focus and setting are announced in advance.
Prerequisites: jr st; Arch 300(P).
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

ARCH 550 Seminar in Building Types and Settings
3 cr. Undergraduate/Graduate.
Development and usage of various building types and settings based
upon social, behavioral, political, and economic factors.
Prerequisites: sr st & Arch 300(P) or 302(P), or cons instr.
Last Taught: Summer 2017, Spring 2017, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ARCH 551 American Vernacular Architecture
3 cr. Undergraduate/Graduate.
Introductory seminar on the historical development of all forms of
vernacular and popular architecture. Buildings are analyzed in detail
within their cultural contexts.
Prerequisites: sr st & Arch 300(P); or grad st.
Last Taught: Summer 2016, Fall 2013, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ARCH 553 Vernacular Buildings and Groupings
3 cr. Undergraduate/Graduate.
Study of the patterns and characteristics of human settlements and
individual structures built according to local traditions.
Prerequisites: sr st & Arch 302(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 560 Introduction to Historic Preservation
3 cr. Undergraduate/Graduate.
Research, discussion and case study development to explore political,
social/historical, economic and design/restoration issues of preservation
and adaptive use of buildings.
Prerequisites: sr st & Arch 300(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 561 Measured Drawing for Architects
3 cr. Undergraduate/Graduate.
History and theory of measured drawings, field measuring and recording
techniques, and production of drawings based on procedures of the
Historic American Building Survey.
Prerequisites: sr st & Arch 301(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 562 Preservation Technology Laboratory
3 cr. Undergraduate/Graduate.
Laboratory focusing on the historic preservation of architectural detail.
Students will examine historic technologies, write papers on them, and
execute them in detail.
Prerequisites: sr st & Arch 301(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 580 Graphic Techniques for Architects
3 cr. Undergraduate/Graduate.
Architectural presentation techniques focusing on the application of
various graphic media including color pencil, pastel, watercolor, marker,
and air-brush.
Prerequisites: sr st & acceptance to Level 2 or arch studies minor; or grad
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 581 Law and Professional Practice for Architects
3 cr. Undergraduate/Graduate.
An introduction to architectural practice; content includes office
procedures, contract management, legal constraints.
Prerequisites: sr st & acceptance to level 2 or arch studies minor; or grad
Current Offerings: http://uwm.edu/schedule

ARCH 583 Emerging Digital Technology:
3 cr. Undergraduate/Graduate.
Laboratory focusing on the theory and application of emerging digital
tools to contemporary problems of architectural design and professional
practice. Proficiency in MicroStation, Rhino, formZ, or SketchUp required.
Prerequisites: jr st & acceptance to Level 2 or arch studies minor; or grad
Course Rules: May be retaken w/chg in topic to a max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 584 Urban Landscape Architecture
3 cr. Undergraduate/Graduate.
Study of historic and contemporary exterior urban space, urban site
planning methodology; design and detailing of exterior urban space;
pedestrian and vehicular movement; use of plant materials.
Prerequisites: sr st & acceptance to level 2 or arch studies minor; or grad
Current Offerings: http://uwm.edu/schedule

ARCH 585 Research Methods in Architecture
3 cr. Undergraduate/Graduate.
Review of various data collection and analysis methods used in
architectural research and design; exploration of the epistemological
foundations of our knowledge about the built environment.
Prerequisites: sr st & acceptance to Level 2; or grad st.
Last Taught: Spring 2016, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ARCH 586 Programming for Architectural Design
3 cr. Undergraduate/Graduate.
Analysis and development of architectural programs: goals, user
requirements, socio-cultural determinants, design criteria, site selection
and analysis, building type analysis, code analysis, and cost projections.
Prerequisites: sr st & Arch 302(P); or grad st.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ARCH 587 Post-Occupancy Evaluation of Built Environments
3 cr. Undergraduate/Graduate.
Evaluation of built environments: technical, functional, and socio-behavioral factors; design of post-occupancy evaluation studies and instruments; and analysis of a built environment.
Prerequisites: sr st & Arch 302(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 650 Intermediate Design Studio
6 cr. Undergraduate.
Intermediate concepts and methods of architectural design relevant to contemporary theory and practice.
Prerequisites: Arch 420(P).
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

ARCH 716 Art of Detailing
3 cr. Graduate.
Seminar/workshop dealing with creative aspects of architectural construction technology. Building details are analyzed with respect to technical appropriateness, durability, context and design consequences.
Prerequisites: grad st; Arch 516(P) & 1 600 or above level studio; Arch 501(R) or 510(R).
Last Taught: Spring 2013, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ARCH 723 Fundamentals of Ecological Architecture
3 cr. Graduate.
Investigation of the ecological issues affecting an architectural design process that aims to produce buildings, landscapes and cities with minimal demands on the environment.
Prerequisites: grad st. Counts as repeat of ARCH 790 with same title.
Last Taught: Spring 2018, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 749 Urban Design as Public Policy
3 cr. Graduate.
Orients students in urban planning to urban design problems as matters of public policy with focus on the analysis and implementation of urban design proposals rather than on the techniques used to generate such proposals.
Prerequisites: grad st.
Course Rules: Not open to students who have cr in UrbPlan 857 which is identical to Arch 749.
Last Taught: Fall 2015, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ARCH 750 Proseminar in Environment Design Research
3 cr. Graduate.
Intensive review of important findings in environmental design from research and professional literature and analysis of impacts on the built environment.
Prerequisites: grad st; Arch 585(C), or cons instr.
Current Offerings: http://uwm.edu/schedule

ARCH 751 Theories of Environment Design Research
3 cr. Graduate.
Systematic review and critique of the major concepts, models, and theories of environmental design; their adequacy relative to current data; needed tests; applicability to environmental policy, planning, and design.
Prerequisites: grad st; Arch 750(P); UrbPlan 740(P)or equiv; or cons instr.
Current Offerings: http://uwm.edu/schedule

ARCH 760 History of Building Technology
3 cr. Graduate.
An examination of evolving technology in architecture from antiquity to the mid-twentieth century, concentrating on examples in the united states; includes field trips.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 770 The Built Environment and Real Estate Development
3 cr. Graduate.
A course providing an understanding of the relationships between economics and architectural design and skills in manipulation of variables in both areas on real projects.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 780 The Built Environment and Real Estate Development
3 cr. Graduate.
A course providing an understanding of the relationships between economics and architectural design and skills in manipulation of variables in both areas on real projects.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 781 Theories of Environment Design Research
3 cr. Graduate.
Systematic review and critique of the major concepts, models, and theories of environmental design; their adequacy relative to current data; needed tests; applicability to environmental policy, planning, and design.
Prerequisites: grad st; Arch 750(P); UrbPlan 740(P)or equiv; or cons instr.
Current Offerings: http://uwm.edu/schedule

ARCH 782 Visualization 1
3 cr. Graduate.
Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ARCH 783 Visualization 2
3 cr. Graduate.
Exploration of the potential for representation to communicate generative, atmospheric, and presentational qualities.
Prerequisites: grad st; Arch 782(P)
Current Offerings: http://uwm.edu/schedule

ARCH 785 Advanced Research Methods in Architecture
3 cr. Graduate.
Advanced treatment of existing and emerging qualitative and quantitative research and analysis methods, including research designs, scholarly, structural, field, survey, experimental and multivariate methods.
Prerequisites: grad st; Arch 585; UrbPlan 740 or equiv or cons instr.
Current Offerings: http://uwm.edu/schedule

ARCH 786 Advanced Research Methods in Architecture
3 cr. Graduate.
Advanced treatment of existing and emerging qualitative and quantitative research and analysis methods, including research designs, scholarly, structural, field, survey, experimental and multivariate methods.
Prerequisites: grad st; Arch 585; UrbPlan 740 or equiv or cons instr.
Current Offerings: http://uwm.edu/schedule

ARCH 788 Green Building Seminar
3 cr. Graduate.
Investigation and research into the environmental and architectural opportunities and constraints of building and landscape materials.
Prerequisites: grad st. Counts as repeat of ARCH 790 with same title.
Current Offerings: http://uwm.edu/schedule
ARCH 790 Special Topics: 
1-3 cr. Graduate.
Development and presentation of new material on an experimental, one-term basis. Specific cr & any additional prereqs announced in schedule of classes whenever course is offered.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 791 Master's Level Directed Research
1-3 cr. Graduate.
Student participation in research projects under faculty supervision.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 3 cr max.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 792 Master's Level Independent Studies and Research
1-3 cr. Graduate.
Independent investigation of issues related to architecture.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

ARCH 794 Pre-Thesis or Master's Project Research
3 cr. Graduate.
Background preparation and research completed prior to master's thesis or project.
Prerequisites: grad st; eligibility for thesis or master's project next semester.
Current Offerings: http://uwm.edu/schedule

ARCH 797 Study Abroad:
3-12 cr. Graduate.
Studio and/or field study designed to provide relevant course work for a study abroad program in architecture.
Prerequisites: grad st; acceptance to Study Abroad Program.
Course Rules: Retakable to 12 cr max w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ARCH 810 Architectural Design I
6 cr. Graduate.
This design studio introduces students to theories and methodologies of architectural design. Design projects explore various design procedures, graphic techniques, and building tectonics.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 820 Architectural Design II
6 cr. Graduate.
This design studio further develops the theories and methodologies of architectural design. Design projects emphasize specific issues of theory, structure, context, program, and graphic communication.
Prerequisites: grad st; Arch 810(P).
Current Offerings: http://uwm.edu/schedule

ARCH 850 Advanced Design Studio:
6 cr. Graduate.
Advanced design studio emphasizing schematic design to detailed development of programmatic spaces, structural and environmental systems, life-safety provisions, wall sections, and building materials and assemblies.
Prerequisites: grad st & Arch 516(C).
Course Rules: Retakeable w/chg in topic to 12 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 890 Master's Thesis
6 cr. Graduate.
Production of a written thesis under the supervision of a faculty committee selected by student.
Prerequisites: grad st; cons advisor; cons chair if taken before final semester.
Last Taught: Spring 2017, Spring 2015, Fall 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ARCH 891 Master's Project
6 cr. Graduate.
Production of an independent design project under the supervision of a faculty committee selected by student.
Prerequisites: grad st; cons advisor; cons chair if taken before final semester.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 990 Doctoral Dissertation
3-12 cr. Graduate.
Research toward the completion of the PhD dissertation under the direction of the candidate's dissertation chair and committee.
Prerequisites: grad st; admis to candidacy for the PhD; & cons PhD prog comm.
Course Rules: May be retaken.
Current Offerings: http://uwm.edu/schedule

ARCH 991 Doctoral Level Research
1-3 cr. Graduate.
Research work for doctoral students in Architecture.
Prerequisites: grad st; cons instr
Course Rules: Retakable to 12 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ARCH 992 Doctoral Level Independent Work
1-3 cr. Graduate.
Independent study on topics selected in agreement with supervising professor.
Prerequisites: grad st; cons instr
Course Rules: Retakable to 12 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
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<td>Yale University</td>
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</table>

Contact Information

Department of Architecture
2131 E. Hartford Avenue

Milwaukee, WI 53211
Phone: (414) 229-5564
sarup-ugrad@uwm.edu
Architectural Studies, BS

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

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

Graduates of the BSAS program can continue their studies at the UW-Milwaukee School of Architecture and Urban Planning by applying to the Master of Architecture (M.Arch) (p. 61), Master of Science in Architecture (M.S.) (p. 64), or Master of Urban Planning (MUP) (p. 77) program.

Admission Standards

New Freshmen

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

See general freshman admission requirements (p. 13) of the University for additional information.

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

Transfer Students

Transfer students are admitted on a selective basis. Preference is given to students whose applications are completed, including all required supporting documents, no later than April 1 (for the following summer/fall term) or November 1 (for the following spring term) and who have completed (or will have completed by the anticipated enrollment date) at least 24 degree credits with a cumulative grade point average of at least 2.5 (on a 4.0 scale). In addition, transfer applicants must meet the same high school English and mathematics course requirements as new freshman applicants. International transfer student applicants also must meet the minimum TOEFL requirement.

Students enrolled in other UWM schools or colleges who wish to enter the architecture program will also be considered for admission on the basis of the criteria listed above. Interested students should schedule an appointment with Tammy Taylor, Undergraduate Advisor, (414) 229-4015.

Second Degree Students

Second-degree candidates enrolled in architecture courses are classified as seniors in architecture. They are not subject to the University’s General Education Requirements; however, they must complete (or have completed) the Mathematics and Physics Competency Requirements. Admission to the School as a second-degree candidate requires a cumulative grade point average of at least 2.75 (on a 4.0 scale) on the previous undergraduate record. Applications must be completed no later than March 1 (for the summer/fall term) or October 1 (for the spring term). For information on second-degree requirements, students should schedule an appointment with Tammy Taylor, Undergraduate Advisor, (414) 229-4015.

Level 1 (Pre-Architecture)

Students applying to the University of Wisconsin-Milwaukee and declaring a primary interest in architectural studies on their application forms will be designated as Architectural Studies Level 1 (Pre-Architecture) students. They will be advised by the School’s undergraduate advisor in the Student Advising Office. The policies and procedures of the School of Architecture and Urban Planning apply to admitted students, even though they may be enrolled in courses in another school or college at UWM.

Pre-Architecture students are not automatically accepted into the Level 2 program.

Level 2 (Architectural Studies)

Entrance into Level 2 requires the following standards: completion of a minimum of 30 credits (sophomore standing); a cumulative GPA of at least 2.75 in both the overall college record and required Level 1 architecture courses (ARCH 100 , ARCH 102, ARCH 103, and ARCH 104, or their equivalent). Because enrollment is contingent upon available staffing and facilities, satisfaction of the minimum requirements does not guarantee admission to Level 2. The academic quality of the student’s Level 1 studies are carefully reviewed by the School’s BSAS Committee. Admission to the University does not guarantee acceptance by the Department of Architecture.

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

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

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

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

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ARCH 100</td>
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<tr>
<td>ARCH 102</td>
<td>Architectural Thinking I</td>
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<td>ARCH 103</td>
<td>Architectural Making II</td>
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<tr>
<td>ARCH 104</td>
<td>Architectural Thinking II</td>
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</table>

Competency Requirements

English:
- Oral and Written Communication Competency - Part A: Complete ENGLISH 102 with a grade of C or higher or place beyond ENGLISH 102 on the English Placement Exam (EPT)
- Oral and Written Communication Competency - Part B: Complete at least one OWC - B course

Mathematics:
- Quantitative Literacy Competency - Part A: Placement code of a 36 on the Math Placement Test; or a grade of C or better in both MATH 105 and MATH 117
- Quantitative Literacy Competency - Part B: Complete at least one QL-B course

Physics
- Select a college-level physics course from the following (or higher): 2-4
  - PHYSICS 100: Quantitative Preparation for Physics
  - PHYSICS 107: Physics in Everyday Life
  - PHYSICS 120: General Physics I (Non-Calculus Treatment)

Foreign Language
- Satisfied by one of the following: 0-8
  - Complete two years of a single foreign language in high school
  - Complete two semesters of a single foreign language in college
  - Demonstrate ability by examination

Directed Electives

- Arts 6
- Humanities 6
- Social Sciences 6
- Natural Sciences, to include a lab 6
- Additional 6 credits from any of the above categories 6

Level 2 Introductory Core Studios (second year)

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<td>ARCH 320</td>
<td>Fundamentals of Architectural Design II</td>
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Level 2 Core Studios (third year)

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Level 2 Core Lectures

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<tr>
<td>ARCH 283</td>
<td>Visualization 2</td>
<td>3</td>
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<tr>
<td>ARCH 301</td>
<td>Architecture Systems 1</td>
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<tr>
<td>ARCH 302</td>
<td>Architecture and Human Behavior</td>
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<tr>
<td>ARCH 304</td>
<td>Contemporary Criticism and Urbanism</td>
<td>3</td>
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Level 2 Electives

Select 24 elective credits at the 300 level or above 5

Total Credits 112

1. In addition, the Department occasionally offers a special topics course (ARCH 190) for experimental coursework.
2. See schedule of classes (http://www4.uwm.edu/schedule) for this listing.
3. One course must satisfy the GER Cultural Diversity Requirement. A list of courses is provided in the online Schedule of Classes each semester under "General Education Requirements." One course must satisfy the Service Learning Requirement. A list of courses is provided in the online Schedule of Classes each semester.
4. The Department requires courses outside the department to give students a foundation in the arts, humanities, social sciences, and natural sciences. These courses satisfy the distribution area of the UWM General Education Requirements (GER)
5. Of these, 15 must be completed in the Department of Architecture. A minimum of 9 credits at the 300 level or above must be taken outside the Department of Architecture. Students intending to enter the M.Arch program will need to complete an ARCH 850 studio. For the BSAS degree, at least the last 24 credits must be earned in residency at UWM. A total of 120 credits is required for graduation. The minimum cumulative GPA required for all UWM credits and for all architecture credits attempted is 2.5.

The study of architecture at UWM consists of three levels that lead to the accredited professional degree of Master of Architecture. Students can enter the program at various levels depending on their background. Students with previous non-professional baccalaureate degrees should visit the Master of Architecture (M.Arch) (p. 61), Master of Science in Architecture (M.S.) (p. 64), or Master of Urban Planning (MUP) (p. 77) program pages for additional information.

All undergraduate students are required to meet the UWM General Education Requirements.

**Level 1 (Pre-Architecture)**

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

**Level 2 (Architectural Studies)**

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

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**Semester 2**

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**Semester 2**

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<td>ARCH 420</td>
<td>Architectural Design II</td>
<td>6</td>
</tr>
<tr>
<td>GER Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Year 4**

**Semester 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 650</td>
<td>Intermediate Design Studio: (Studio Option)</td>
<td>6</td>
</tr>
<tr>
<td>ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Non-ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GER Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Non-ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Non-ARCH Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GER Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Total Credits** | 120-121

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

### Honors and High Honors in the Major

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

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

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

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

#### Dean's Honor List

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

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits:

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

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

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

The **Directed Research** course (ARCH 391) offers an opportunity for students to participate in current research projects of architecture faculty. Eligibility and approval for registration are at the discretion of the faculty members in charge of the projects.
The Special Topics course (ARCH 390) permits individual faculty members to develop special subjects on a one-semester basis. Special Topics courses are announced at registration for the following semester.

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

**Architectural Studies, Minor**

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

**Requirements**

Students who choose the Minor in Architectural Studies must have a declared major in another school or college at UWM and must have a minimum of a 2.5 grade point average. The minor consists of 18 credits in architecture courses. Nine credits numbered 300 or above must be taken in residence at UWM. All credits in the minor must be completed with an overall grade point average of at least 2.5, and no courses may be taken on a credit/no credit basis.

**Admission to the Minor**

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

**Course of Study**

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

**Architectural Studies Minor: 18 credits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 100</td>
<td>Architectural Making I</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 101</td>
<td>Introduction to Architectural Theory</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 103</td>
<td>Architectural Making II</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 104</td>
<td>Architectural Thinking II</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 282</td>
<td>Visualization I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Remaining 9 credits from this listing at residence at UWM:** 9

- ARCH 302 Architecture and Human Behavior
- ARCH 304 Contemporary Criticism and Urbanism
- ARCH 310 Fundamentals of Architectural Design I
- ARCH 320 Fundamentals of Architectural Design II
- ARCH 350 Greening Milwaukee
- ARCH 380 Drawing in Architecture
- ARCH 383 Landscape Architecture
- ARCH 390 Special Topics:

**Total Credits** 18

**Architecture, MArch: Ecological Design**

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires 2 to 3 years of graduate study, depending on the applicant’s previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

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

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

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

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

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

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

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

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

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

**PhD Program**

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

**MArch/MUP Program**

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

**Additional Notes**

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

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission to 2-Year Program**

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

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

**Admission to 3 Year Program**

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

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

**Admission to MArch/MUP Program**

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

**Credits and Courses**

**2 Year Program**

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH</td>
<td>Survey of Structural Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Environmental Systems: Illumination and Thermal Comfort</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Environmental Systems: Resources-Fluid Distribution Systems</td>
<td></td>
</tr>
<tr>
<td>ARCH</td>
<td>Environmental Systems: Lighting and Acoustical Design</td>
<td></td>
</tr>
<tr>
<td>ARCH</td>
<td>Topics in Architectural Theory:</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Law and Professional Practice for Architects</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Comprehensive Design Studio:</td>
<td>6</td>
</tr>
<tr>
<td>ARCH</td>
<td>Capstone and Elective Credits (Students choose content specific to their area of interest)</td>
<td>21</td>
</tr>
<tr>
<td>ARCH</td>
<td>Pre-Thesis or Master’s Project Research</td>
<td></td>
</tr>
</tbody>
</table>

**1** Select one additional course

**2** Select two additional courses

**Capstone options (3-18 credits)**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH</td>
<td>Pre-Thesis or Master’s Project Research</td>
</tr>
</tbody>
</table>
A 500-level or higher architecture elective
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 890</td>
<td>Master's Thesis</td>
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<tr>
<td>ARCH 891</td>
<td>Master's Project</td>
<td></td>
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<tr>
<td>ARCH 850</td>
<td>Advanced Design Studio</td>
<td></td>
</tr>
</tbody>
</table>

Electives (3-18 credits)
The remaining credits required for the M.Arch degree are graduate-level electives in or outside the Department of Architecture.

Total Credits 60

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

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

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

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

The entry requirements totaling 30 cr. are as follows:

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

Total Credits 30

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 723</td>
<td>Fundamentals of Ecological Architecture</td>
<td>6</td>
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</tbody>
</table>

Select one of the following (ecological design focus):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 794</td>
<td>Pre-Thesis or Master's Project Research</td>
<td>9</td>
</tr>
</tbody>
</table>

At least 3 credits taken outside architecture

Capstone (Courses listed above) 6

Total Credits 21

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

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

Architecture, MArch: Preservation Studies

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires 2 to 3 years of graduate study, depending on the applicant’s previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Distribution Categories</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Technology</td>
<td></td>
</tr>
<tr>
<td>ARCH 510</td>
<td>Survey of Structural Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 516</td>
<td>Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARCH 520</td>
<td>Environmental Systems: Illumination and Thermal Comfort</td>
<td></td>
</tr>
<tr>
<td>ARCH 521</td>
<td>Environmental Systems: Resources-Fluid Distribution Systems</td>
<td></td>
</tr>
<tr>
<td>ARCH 522</td>
<td>Environmental Systems: Lighting and Acoustical Design</td>
<td></td>
</tr>
<tr>
<td>Theory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 533</td>
<td>Topics in Architectural Theory:</td>
<td>3</td>
</tr>
<tr>
<td>Select one additional course 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Practice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 581</td>
<td>Law and Professional Practice for Architects</td>
<td>3</td>
</tr>
<tr>
<td>Select one additional course 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCH 825</td>
<td>Comprehensive Design Studio:</td>
<td>6</td>
</tr>
</tbody>
</table>
Select two additional studios  

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

Capstone options (3-18 credits)

Select one of the following:

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

Select one of the following:

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

Electives (3-18 credits)

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

Total Credits = 60

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

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

3 Year Program

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

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

The entry requirements totaling 30 cr. are as follows:

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

Total Credits = 30

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

Transcript-Designated Concentration in Preservation Studies

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 560</td>
<td>Introduction to Historic Preservation</td>
<td>12</td>
</tr>
<tr>
<td>ARCH 760</td>
<td>History of Building Technology</td>
<td></td>
</tr>
<tr>
<td>ARCH 850</td>
<td>Advanced Design Studio:</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone (Courses listed above) and Preservation Elective credits  

Total Credits = 21

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

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

Program Requirements

Major Professor as Advisor

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

Architecture, MArch: Real Estate Development

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires 2 to 3 years of graduate study, depending on the applicant’s previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

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

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

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

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

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

MArch (pre-professional degree + 60 graduate credits)
MArch (non-pre-professional degree + 90 credits)
Master of Science in Architecture (MS)
This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

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

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

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

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

• Submission of test results from the General Test portion of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).
• Portfolio of architectural studies work.
• For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

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

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

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

Credits and Courses

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Distribution Categories</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH</td>
<td>Technology</td>
<td>Survey of Structural Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Technology</td>
<td>Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Technology</td>
<td>Environmental Systems: Illumination and Thermal Comfort</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Technology</td>
<td>Environmental Systems: Resources-Fluid Distribution Systems</td>
<td></td>
</tr>
<tr>
<td>ARCH</td>
<td>Technology</td>
<td>Environmental Systems: Lighting and Acoustical Design</td>
<td></td>
</tr>
<tr>
<td>ARCH</td>
<td>Theory</td>
<td>Topics in Architectural Theory:</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Practice</td>
<td>Law and Professional Practice for Architects</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Design</td>
<td>Comprehensive Design Studio:</td>
<td>6</td>
</tr>
</tbody>
</table>

Select one additional course
Select one additional course
Select two additional studios

1. Additional course
2. Additional studio
The entry requirements totaling 30 cr. are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 300</td>
<td>Architectural History and Theory</td>
<td>3</td>
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<td>6</td>
</tr>
<tr>
<td>ARCH 820</td>
<td>Architectural Design II</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 30

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

Transcript-Designated Concentration in Real Estate Development

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 481</td>
<td>Real Estate Finance</td>
<td></td>
</tr>
<tr>
<td>or BUS ADM 483</td>
<td>Property Development and Management</td>
<td></td>
</tr>
</tbody>
</table>

Real Estate Electives 9

Capstone (Courses listed above) 6

Total Credits 21

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

Program Requirements

Major Professor as Advisor

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

Architecture, MArch

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires 2 to 3 years of graduate study, depending on the applicant’s previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

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

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MArch (pre-professional degree + 60 graduate credits)
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MArch/MUP Program

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

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Admission to 2-Year Program

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

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

Admission to 3 Year Program

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

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

Admission to MArch/MUP Program

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

Credits and Courses

2 Year Program

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH</td>
<td>Comprehensive Design Studio:</td>
<td>6</td>
</tr>
<tr>
<td>ARCH</td>
<td>Topics in Architectural Theory:</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Law and Professional Practice for Architects</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Acoustical Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Survey of Structural Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Environmental Systems: Illumination and Thermal Comfort</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Environmental Systems: Resources-Fluid Distribution Systems</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Environmental Systems: Lighting and Acoustical Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH</td>
<td>Architectural History, Theory, and Criticism</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Select two additional courses.
2 Select three additional courses.
3 Select one additional course.
Capstone and Elective Credits (Students choose content specific to their area of interest) 21

Capstone options (3-18 credits)
Select one of the following:

ARCH 794 Pre-Thesis or Master’s Project
Research

A 500-level or higher architecture elective
Select one of the following:

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

Electives (3-18 credits)
The remaining credits required for the M.Arch degree are
graduate-level electives in or outside the Department of
Architecture

Total Credits 60

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

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

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

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

The entry requirements totaling 30 cr. are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

URBPLAN 751 Introduction to Urban Design and Physical Planning
URBPLAN 791 Introduction to Urban Geographic Information Systems for Planning
URBPLAN 857 Urban Design as Public Policy
URBPLAN 858 Studio in Urban Design and Physical Planning (6 cr)
URBPLAN 751 Introduction to Urban Design and Physical Planning
or URBPLAN 857 Urban Design as Public Policy

ARCHITECTURE REQUIREMENTS

Distribution Requirements 27

Technology
ARCH 510 Survey of Structural Analysis and Design
ARCH 516 Building Construction

Select one of the following:

ARCH 520 Environmental Systems: Illumination and Thermal Comfort
ARCH 522 Environmental Systems: Lighting and Acoustical Design

Theory

Department of Urban Planning. The Urban Planning Master’s program
(p. 77) is detailed in the Urban Planning section of this Bulletin.

Requirements

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://
wum.edu/graduateschool/program-deadlines), call the Registrar’s Office
at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/
contact-us) online.

Credits and Courses

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

URBPLAN 751 Introduction to Urban Design and Physical Planning
URBPLAN 791 Introduction to Urban Geographic Information Systems for Planning
URBPLAN 857 Urban Design as Public Policy
URBPLAN 858 Studio in Urban Design and Physical Planning (6 cr)
URBPLAN 751 Introduction to Urban Design and Physical Planning
or URBPLAN 857 Urban Design as Public Policy

ARCHITECTURE REQUIREMENTS

Distribution Requirements 27

Technology
ARCH 510 Survey of Structural Analysis and Design
ARCH 516 Building Construction

Select one of the following:

ARCH 520 Environmental Systems: Illumination and Thermal Comfort
ARCH 522 Environmental Systems: Lighting and Acoustical Design

Theory

Architecture, MArch/Urban Planning, MUP

Joint program candidates must complete all of the requirements of
the M.Arch (p. 61) degree and the requirements stipulated by the
If at any time you are unsure about a published date or deadline, call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

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

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

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 791</td>
<td>Master’s Level Directed Research</td>
<td>3-6</td>
</tr>
<tr>
<td>ARCH 792</td>
<td>Master’s Level Independent Studies and Research</td>
<td>3-6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select at least 6 credits of approved courses</td>
<td>6</td>
</tr>
<tr>
<td>regarding research methods and techniques</td>
<td></td>
</tr>
<tr>
<td>Applied Practice</td>
<td>6</td>
</tr>
<tr>
<td>Select at least 6 credits related directly to the</td>
<td></td>
</tr>
<tr>
<td>application of the student’s area of specialization</td>
<td></td>
</tr>
<tr>
<td>to practical applications in architecture and/or</td>
<td></td>
</tr>
<tr>
<td>related disciplines</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 3-6 credits from one or both of the following</td>
<td>3-6</td>
</tr>
<tr>
<td>related to the student’s area of specialization:</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office

<table>
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<tr>
<th>Code</th>
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Architecture Capstone Requirement
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<td>Master’s Project</td>
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<tr>
<td>ARCH 850</td>
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Graduate-level electives in Architecture

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Other graduate-level electives, any area

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Total Credits

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<td>84</td>
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</table>

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

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

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

Admission

Major Professor as Advisor

Upon admission, each student is assigned a faculty advisor to advise and supervise the student's studies.

Master's Thesis or Project

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

Time Limit

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

Architecture, PhD

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

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

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

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

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

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

Reapplication

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

Credits and Courses

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

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

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

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

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

Residence
The student must meet minimum Graduate School residence requirements.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Programs

- Geographic Information Systems, Graduate Certificate (School of Architecture and Urban Planning) (p. 71)
- Urban Planning, MUP (p. 77)
- Urban Planning, MUP/Architecture, MArch (p. 78)
- Urban Planning, MUP/Engineering, MS (p. 79)
- Urban Planning, MUP/Public Administration, MPA (p. 80)
- Urban Planning, MUP: Geographic Information Systems (p. 73)
- Urban Planning, MUP: Real Estate Development (p. 75)
- Urban Planning, Undergraduate Certificate (p. 81)

Urban Planning Courses

URBPLAN 140 Issues in Contemporary Urban Planning
3 cr. Undergraduate.
To examine issues that cities are working on, including sustainability, transportation, economic development, and housing, and learn how planners address these.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

URBPLAN 141 Urban Planning Solutions to Contemporary Urban Problems
3 cr. Undergraduate.
Professional role of urban planners in addressing social and economic justice considerations, including fair housing, economic opportunity, and health and environmental disparities.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

URBPLAN 292 Current Planning Issues:
3 cr. Undergraduate.
This course provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis.
Prerequisites: soph st.
Course Rules: May be retaken w/content change to 9 cr max.
Current Offerings: http://uwm.edu/schedule

URBPLAN 315 Great Cities of the World: Their Growth and Guided Urbanization
3 cr. Undergraduate.
Great cities of the world, how they were built and developed. Culture, politics and economics, their role in urban planning and the built form.
Prerequisites: soph st.
Current Offerings: http://uwm.edu/schedule

URBPLAN 316 Planning for the Great Cities of America
3 cr. Undergraduate.
The study of planning and development programs of large American cities and their approaches to growth, change, and decay, with a view to future solutions.
Prerequisites: soph st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

URBPLAN 350 Social Justice, Urban Planning and the New Multicultural America
3 cr. Undergraduate.
Examination of historical, sociological, economic and political relationships that impact urban communities. Community and social justice issues are addressed from a planning perspective.
Prerequisites: soph st.
General Education Requirements: CD
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

URBPLAN 399 Independent Study
3 cr. Undergraduate.
Independent investigation of issues related to urban planning.
Prerequisites: jr st; cons instr.
Course Rules: May not be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
URBPLAN 491 Urban Planning Internship
3 cr. Undergraduate.
Practical urban planning experience with a government agency or private firm under the supervision of a working expert and a faculty member.
Prerequisites: sr st & cons instr.
Last Taught: Fall 2015, Summer 2014, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

URBPLAN 497 Study Abroad:
3-12 cr. Undergraduate.
Field study designed to provide relevant course work for a study abroad program in urban planning.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

URBPLAN 591 Introduction to Urban Geographic Information Systems (GIS) in Planning
3 cr. Undergraduate.
Use of spatially related information including GIS and land record systems for improved productivity and decision making in service delivery, management, policy planning and land development.
Prerequisites: jr st.
Course Rules: Counts as repeat of UrbPlan 692 with same title.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

URBPLAN 630 Budgeting and Finance in the Public Sector
3 cr. Undergraduate/Graduate.
Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.
Prerequisites: sr st or cons instr.
Course Rules: Jointly-offered w/ & counts as repeat of Pub Adm 630(Pol Sci 630).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

URBPLAN 651 Land Use Planning Practice
3 cr. Undergraduate/Graduate.
Specific land planning methods and applications (subdivision regulation, zoning, site plan review, building permit process) used to implement community plans.
Prerequisites: sr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

URBPLAN 655 Negotiation Theory and Practice for Urban Planners
3 cr. Undergraduate/Graduate.
Negotiation theory and practice, focusing on skills used by planners in balancing the needs of general public with those of private interests.
Prerequisites: sr st or cons instr.
Course Rules: Counts as repeat of UrbPlan 692 with same title.
Current Offerings: http://uwm.edu/schedule

URBPLAN 662 Land Use Planning for Urban Redevelopment
3 cr. Undergraduate/Graduate.
Introduction to contemporary trends in urban redevelopment; focus on planning and development techniques used to revitalize declining urban areas.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

URBPLAN 682 Planning for Sustainable Energy
3 cr. Undergraduate/Graduate.
An exploration of the need for sustainable energy, the potential savings in various alternatives, and the roles and specific actions local governments can take.
Prerequisites: sr st.
Last Taught: Fall 2013, Spring 1985.
Current Offerings: http://uwm.edu/schedule

URBPLAN 684 Planning Local Economic Development
1-3 cr. Undergraduate/Graduate.
Provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis. Specific cr & any additional prereqs announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

URBPLAN 701 Introduction to Land Use Planning
1 cr. Graduate.
Introduction to contemporary land use planning emphasizing the four primary tools of development regulation: comprehensive planning, zoning, subdivision regulation, and capital improvement programming.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

URBPLAN 702 Introduction to Planning Law
2 cr. Graduate.
Constitutional and statutory authority for and limits on local government regulation of land use. Application of key concepts, including police power, due process, and property.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
URBPLAN 711 Planning Theories and Practice  
3 cr. Graduate.  
Theories about how planners should act in the planning process. History, values, and ethics of the profession; methods of participation; discussion of power in planning.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 720 Urban Development Theory and Planning  
3 cr. Graduate.  
Spatial, social, economic, and political processes that shape urban development. Application of these processes to fomulate and critique urban plans and policies.  
Prerequisites: grad st; admis to UrbPlan or cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 721 Applied Planning Methods  
3 cr. Graduate.  
Data sources and analysis techniques for urban planning. Survey design, economic analyses, benefit/cost analysis, market areas; the complexities of public and private data sources.  
Prerequisites: grad st.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 740 Data Analysis Methods I  
3 cr. Graduate.  
Application of quantitative methods most commonly used in urban planning and analysis of the built environment.  
Prerequisites: grad st; admis to UrbPlan prog, Arch prog, or cons instr.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 751 Introduction to Urban Design and Physical Planning  
3 cr. Graduate.  
Planning for human needs as related to the physical layout and spatial design of urban environments.  
Prerequisites: grad st.  
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 762 Housing Markets and Public Policy  
3 cr. Graduate.  
An examination of national and local housing markets, their components and operations, and the impacts on them of a variety of public and private actions.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 770 Government Public Relations and Advocacy  
3 cr. Graduate.  
External communications by public sector managers and planners for purposes of democratic accountability, fulfilling the mission of the agency, and communicating with elected officials.  
Prerequisites: grad st.  
Course Rules: UrbPlan 705 & Pub Adm 705 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 771 Transportation Policy and Planning  
3 cr. Graduate.  
Seminar on the evolution of urban transportation systems and policies, transportation finance, land use and transportation interactions, and transportation planning and policy evaluation techniques.  
Prerequisites: grad st or cons instr.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 772 Pedestrian and Bicycle Transportation  
3 cr. Graduate.  
Current practices in pedestrian and bicycle transportation, including institutional frameworks, benefits, safety, facility design, network development, demand estimation, suitability assessment, and performance measurement.  
Prerequisites: grad st  
Current Offerings: http://uwm.edu/schedule

URBPLAN 782 Water Resources Planning  
3 cr. Graduate.  
Emphasis on planning for water across the water cycle (surface, groundwater, wetlands, etc.) integrating non-water resources (habitat, energy, GHG emissions, etc.) in an urban context.  
Prerequisites: grad st.  
Course Rules: Jointly offered with & counts as repeat of Frshwtr 782.  
Last Taught: Fall 2014.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 791 Introduction to Urban Geographic Information Systems for Planning  
3 cr. Graduate.  
Use of spatially related information including gis and land records systems for improved productivity and decision making in service delivery, management, policy-planning, and land development.  
Prerequisites: grad st.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 792 Using Urban Geographic Information Systems (GIS) for Planning  
3 cr. Graduate.  
A 'hands on' course in gis using commercial gis software in a computer laboratory setting to provide experience solving problems related to planning and government.  
Prerequisites: grad st; Urbplan 791(P) or Geog 525(P) or cons instr.  
Current Offerings: http://uwm.edu/schedule

URBPLAN 793 Applied Projects in Urban Geographic Information Systems  
3 cr. Graduate.  
Use of a geographic information system (GIS) and actual data from local government to analyze a real world problem or issue requiring spatial data analysis.  
Prerequisites: grad st; Urbplan 791 or cons instr.  
Current Offerings: http://uwm.edu/schedule
URBPLAN 794 Internet Geographic Information Systems (GIS)
3 cr. Graduate.
Seminar on theoretical background and hands-on experience with technologies for developing GIS applications on the Internet, the web, and wireless networks.
Prerequisites: grad st; UrbPlan 792(P) or Geog 625(P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

URBPLAN 797 Study Abroad
3-12 cr. Graduate.
Field study designed to provide relevant course work for a study abroad program in urban planning.
Prerequisites: grad st; acceptance to Study Abroad Program
Current Offerings: http://uwm.edu/schedule

URBPLAN 810 Planning Policy Analysis
6 cr. Graduate.
Application of planning analysis tools in the context of policy issues involving planners; a case studies approach stressing both policy analysis and the role of the planner.
Prerequisites: grad st; UrbPlan 701(P), 702(P), 711(P), 720(P), 721(P), 740(P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

URBPLAN 811 Applied Planning Workshop
3 cr. Graduate.
Application of planning concepts, principles, processes and techniques to a selected realistic problem, issue, or project context at an appropriate scale ranging from the neighborhood to the state.
Prerequisites: grad st; UrbPlan 810(P).
Current Offerings: http://uwm.edu/schedule

URBPLAN 841 Seminar in Planning Analysis:
3 cr. Graduate.
Application of one planning methodology: theory, case studies, preparation and presentation of major student project.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

URBPLAN 857 Urban Design as Public Policy
3 cr. Graduate.
Orients students in urban planning to urban design problems as matters of public policy with focus on the analysis and implementation of urban design proposals rather than on the techniques used to generate such proposals.
Prerequisites: grad st.
Course Rules: Not open to students who have cr in Arch 749 which is identical to UrbPlan 857.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

URBPLAN 858 Studio in Urban Design and Physical Planning
6 cr. Graduate.
Projects and seminars apply urban planning principles to problems of urban design and physical planning to develop students' abilities to evaluate and effectively criticize proposals.
Prerequisites: grad st; Urbplan 751(P) or 857(P).
Current Offerings: http://uwm.edu/schedule

URBPLAN 880 Urban Sustainability
3 cr. Graduate.
Urban sustainable challenges and opportunities that impact the built environment. Includes review of traditional and innovative sustainable practices and regulations
Prerequisites: grad st.
Course Rules: Jointly-offered w/ & counts as repeat of UrbPlan 880.
Current Offerings: http://uwm.edu/schedule

URBPLAN 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st
Course Rules: Fee assessed for 1 cr.
Current Offerings: http://uwm.edu/schedule

URBPLAN 990 Graduate Thesis
3-6 cr. Graduate.
Thesis under the direction of graduate planning faculty.
Prerequisites: grad st, cons instr; successful completion of comprehensive exam.
Course Rules: May be retaken to max of 6 cr, which can be substituted for elective credits.
Last Taught: Spring 2016, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

URBPLAN 991 Legislative/Administrative Agency Internship
3-6 cr. Graduate.
Research project assignments with elected legislative officials and administrative agencies. Assignments will be cooperatively developed and supported by an integrating seminar discussing both experience and theory in a planning implementation context.
Prerequisites: grad st; cons instr.
Course Rules: May be retaken with change in topic to max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

URBPLAN 992 Seminar in Urban Planning:
1-3 cr. Graduate.
Advanced study of special topics in urban planning. Specific cr & any additional prereqs announced in schedule of classes whenever course is offered.
Prerequisites: grad st or cons instr.
Course Rules: Retakeable with topic change to max of 6 cr.
Current Offerings: http://uwm.edu/schedule
URBPLAN 999 Independent Study
1-3 cr. Graduate.
Individual work in urban planning. Variable content course.
Prerequisites: grad st; cons instr.
Course Rules: Retakeable to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Ernest Alexander</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California - Davis</td>
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</tr>
<tr>
<td>Carolyn Esswein</td>
<td>Adjunct Assistant Professor</td>
<td>MArch, MUP</td>
<td></td>
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</tr>
<tr>
<td>Enrique Figueroa</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California - Davis</td>
<td>✓</td>
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</tr>
<tr>
<td>Nancy Frank</td>
<td>Associate Professor, Chair</td>
<td>PhD</td>
<td>State University of New York at Albany</td>
<td>✓</td>
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</tr>
<tr>
<td>Kirk Harris</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
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<tr>
<td>Lingquan (Ivy) Hu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
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<td>William Huxhold</td>
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<tr>
<td>Mordecai Lee</td>
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<td>PhD</td>
<td>Syracuse University</td>
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<td>Josephy Mangiamele</td>
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<td>Robert Schneider</td>
<td>Assistant Professor</td>
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<td>University of California, Berkeley</td>
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<td>Professor</td>
<td>PhD</td>
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Contact Information
Department of Urban Planning
2131 E. Hartford Avenue
Milwaukee, WI 53211
Phone: (414) 229-5563
sarup-ugrad@uwm.edu
sarup-grad@uwm.edu
uwm.edu/sarup/urban-planning/ (http://uwm.edu/sarup/urban-planning)

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

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

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

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

Credits and Courses
A minimum of 6 credits each in Urban Planning and Geography courses are required for completion of the certificate. To earn the Certificate, one must complete six semester-long courses (with a minimum of 18 credits), satisfy graduate school criteria for successful completion and maintain at least a B (3.00) average among the following courses:
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<th>Code</th>
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**Tier 2 (select one course)**

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**Tier 3 (Select two courses)**

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**Electives**

Select two courses from the list below

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**INFOST 465**

Legal Aspects of Information Products and Services

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Total Credits: 18

**INFOST 465**

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Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. To be eligible for transfer, the course must have been completed within the last 2 years. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

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

Gainful Employment Disclosure Information
• UWM Financial Aid Gainful Employment (http://uwm.edu/financialaid/apply-for-aid/eligibility/non-degree-students/#primary)

Urban Planning, MUP: Geographic Information Systems

This concentration provides the skills and experience needed by professional planners to develop and use spatial analysis technology in both public and private organizations to improve their service delivery, management, and policy planning activities. Planning students learn state-of-the-art skills for using and analyzing data spatially in planning for improvements in transportation, housing, economic development, environment, natural resources, and related fields.

Related Certificates
• Certificate in Geographic Information Systems (p. 71)

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

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

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

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

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

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

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<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td>3</td>
</tr>
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<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- URBPLAN 751 | Introduction to Urban Design and Physical Planning | 3 |
- URBPLAN 791 | Introduction to Urban Geographic Information Systems for Planning | 3 |
- URBPLAN 857 | Urban Design as Public Policy | 3 |

Concentration or Emphasis Area

Select a concentration or emphasis area 21

Total Credits 48

Emphasis Areas

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

Transcript-Designated Concentration in Geographic Information Systems

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

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

Select a minimum of 6 elective credits 1

Total Credits 15

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

Program Requirements

Major Professor as Advisor

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

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

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

In some cases, students require more intense instruction to improve their skills to the level needed for planning practice. Faculty members assess student writing proficiency in the first semester core courses. Students who lack the required level of proficiency may be required to take a writing course as part of their second semester program of study. Writing proficiency is also a required element of the comprehensive exam.

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

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

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

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

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

Urban Planning, MUP: Real Estate Development

A concentration in real estate development provides a focused course of study for Master of Architecture and/or Master of Urban Planning students who wish to pursue careers in real estate development in combination with professional architectural practice or work with a private or public developer.

Related Certificates
- Certificate in Geographic Information Systems (p. 71)

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

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

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

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

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

Admission Requirements

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

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
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Credits and Courses

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

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<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td>3</td>
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</tbody>
</table>

Select one of the following:

- URBPLAN 751 Introduction to Urban Design and Physical Planning
- URBPLAN 791 Introduction to Urban Geographic Information Systems for Planning
- URBPLAN 857 Urban Design as Public Policy

Concentration or Emphasis Area
Select a concentration or emphasis area
- Total Credits: 21

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

Transcript-Designated Concentration in Real Estate Development

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

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 780</td>
<td>The Built Environment and Real Estate Development</td>
<td>6</td>
</tr>
<tr>
<td>BUS ADM 481</td>
<td>Real Estate Finance</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 483</td>
<td>Property Development and Management</td>
<td></td>
</tr>
</tbody>
</table>

Real Estate Electives and Capstone
Select 9-12 credits from the following:

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<tr>
<td>ARCH 560</td>
<td>Introduction to Historic Preservation</td>
<td></td>
</tr>
<tr>
<td>ARCH 749</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
<tr>
<td>ARCH 792</td>
<td>Master’s Level Independent Studies and Research</td>
<td></td>
</tr>
<tr>
<td>ARCH 794</td>
<td>Pre-Thesis or Master’s Project Research</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 651</td>
<td>Land Use Planning Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 662</td>
<td>Land Use Planning for Urban Redevelopment</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 684</td>
<td>Planning Local Economic Development</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 762</td>
<td>Housing Markets and Public Policy</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 771</td>
<td>Transportation Policy and Planning</td>
<td></td>
</tr>
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<td>URBPLAN 857</td>
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</tr>
<tr>
<td>URBPLAN 858</td>
<td>Studio in Urban Design and Physical Planning</td>
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<tr>
<td>URBPLAN 991</td>
<td>Legislative/Administrative Agency Internship</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 999</td>
<td>Independent Study</td>
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Capstone
Select one of the following options:
Option A: A thesis that focuses on real estate:
URBPLAN 990 Graduate Thesis

Option B: A real estate development proposal developed for a private organization (business or non-profit) that is innovative and adds significant value to the built environment:
URBPLAN 999 Independent Study

Option C: A paper suitable for publication concerning real estate development, for which the student is either sole author or co-author with a faculty member.
URBPLAN 999 Independent Study

Total Credits 21

Program Requirements

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

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Urban Planning, MUP
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<table>
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<th>Concentration or Emphasis Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a concentration or emphasis area</td>
<td>21</td>
</tr>
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</table>

Total Credits: 48

Emphasis Areas

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

Urban Planning, MUP/Architecture, MArch

Joint program candidates must complete all of the requirements of the M.Arch (p. 61) degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master’s program (p. 77) is detailed in the Urban Planning section of this Bulletin.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Credits and Courses

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

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

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<td></td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td></td>
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<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- URBPLAN 751 | Introduction to Urban Design and Physical Planning      |
- URBPLAN 791 | Introduction to Urban Geographic Information Systems for Planning |
- URBPLAN 857 | Urban Design as Public Policy                           |

Urban Planning Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 858</td>
<td>Studio in Urban Design and Physical Planning (6 cr)</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

ARCHITECTURE REQUIREMENTS

**Distribution Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 510</td>
<td>Survey of Structural Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>ARCH 516</td>
<td>Building Construction</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

- ARCH 520 | Environmental Systems: Illumination and Thermal Comfort |
- ARCH 522 | Environmental Systems: Lighting and Acoustical Design  |

**Theory**

- ARCH 533 | Topics in Architectural Theory:                        |
- ARCH 583 | Emerging Digital Technology:                           |

**Practice**

- ARCH 825 | Comprehensive Design Studio: (6 cr)                    |
- ARCH 850 | Advanced Design Studio:                                 |

**Architecture Capstone Requirement**

Select one of the following:

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

Select one of the following:

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

**Graduate-level electives in Architecture**

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>6</td>
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</tbody>
</table>

**Other graduate-level electives, any area**

<table>
<thead>
<tr>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>6</td>
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</tbody>
</table>

**Total Credits**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>84</td>
</tr>
</tbody>
</table>

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

**Joint Program Candidates**

Joint program candidates must complete all of the requirements of the M.Arch degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master’s program is detailed in the Urban Planning section of this Bulletin.

**Program Requirements**

**Capstone Requirement**

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

**Time Limit**

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

**Urban Planning, MUP/Engineering, MS**

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

**Cooperating Departments:**

- Civil Engineering
- Electrical Engineering and Computer Science
- Industrial and Manufacturing Engineering
- Materials
- Mechanical Engineering

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Credits and Courses**

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

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
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<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td></td>
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<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
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<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
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<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td></td>
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<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 791</td>
<td>Introduction to Urban Geographic Information</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 857</td>
<td>Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 791</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>27</td>
</tr>
</tbody>
</table>

**Qualifying Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Civ Eng courses numbered between 701 and 999, excluding 888 and 998.</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>May include up to 3 credits each of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV ENG 990</td>
<td>Masters Thesis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 999</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Program Requirements**

**Degree Requirements**

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

**Time Limit**

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

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

The College of Letters and Science and the Lubar School of Business offer and present jointly the Master of Public Administration (MPA). The program is designed to provide theoretical and practical preparation for careers in public and non-profit administration with three areas of concentration: municipal management, general public administration, and non-profit management.

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

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

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Credits and Courses**

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td>2</td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td>6</td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- URBPLAN 751: Introduction to Urban Design and Physical Planning
- URBPLAN 791: Introduction to Urban Geographic Information Systems for Planning
- URBPLAN 857: Urban Design as Public Policy

Total Credits: 27

### Required Courses in Public Administration (18 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 921 or URBPLAN 991</td>
<td>Public Service Administrative Internship</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 959</td>
<td>Capstone Seminar in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one seminar in organizational management and leadership from the following:

- BUS ADM 443: Special Topics in Human Resources Management
- BUS ADM 732: Transforming Organizations
- BUS ADM 737: Managerial Decisions and Negotiations

Select one “Great Cities” course:

- URBPLAN 315: Great Cities of the World: Their Growth and Guided Urbanization
- URBPLAN 316: Planning for the Great Cities of America

Select one skills course:

- URBPLAN 591: Introduction to Urban Geographic Information Systems (GIS) in Planning
- URBPLAN 651: Land Use Planning Practice
- URBPLAN 655: Negotiation Theory and Practice for Urban Planners

### Electives

Select 6 elective credits

Total Credits: 18

1 Students may take any urban planning courses, including those listed above, to fulfill the elective credit requirement. Courses may be counted only once toward the certificate.

### Concentration Requirement (18 credits)

Completion of all the requirements for one of the concentrations in Public Administration. A maximum of six credits of MUP core courses may be used as electives in the MPA concentrations.

### Program Requirements

#### Comprehensive Exam

Completion of the comprehensive exam in Urban Planning is required. (See Urban Planning)
ARTS (PECK SCHOOL OF THE)

The Peck School of the Arts includes five departments: Art & Design, Dance, Film, Music, and Theatre. Curricula are available for students interested in careers in the arts or in teaching at the elementary, secondary, or college level. An Inter-Arts major, which prepares the student for an interdisciplinary arts career, is also offered.

Degree Programs

Bachelor of Arts Animation, Art, Dance, Music, Theatre

Bachelor of Fine Arts Art, Art Education, Dance, Film, Music, Music Education, Theatre

Master of Arts Art

Master of Fine Arts Art, Performing Arts (Dance and Film)

Master of Music (including Music Education)

Master of Science Art Education

Departments and Programs

- Art & Design (p. 86)
  - Art and Design, Minor: Community Arts (p. 108)
  - Art and Design, Minor: Design (p. 109)
  - Art and Design, Minor: Photography (p. 109)
  - Art and Design, Minor: Studio (p. 110)
  - Art Education, BFA (p. 110)
  - Art Education, MS (p. 114)
  - Art, BA: Community Arts (p. 115)
  - Art, BA: Design Studies (p. 118)
  - Art, BA: Digital Fabrication and Design (p. 121)
  - Art, BA: Studio Arts (p. 124)
  - Art, BFA: Ceramics (p. 126)
  - Art, BFA: Design and Visual Communication (p. 129)
  - Art, BFA: Digital Studio Practice (p. 133)
  - Art, BFA: Fibers (p. 136)
  - Art, BFA: Jewelry and Metalsmithing (p. 139)
  - Art, BFA: Painting and Drawing (p. 143)
  - Art, BFA: Photography and Imaging (p. 146)
  - Art, BFA: Print and Narrative Forms (p. 149)
  - Art, BFA: Sculpture (p. 152)
  - Art, MA: Design Entrepreneurship and Innovation (p. 155)
  - Art, MA: Studio Art (p. 157)
  - Art, MFA (p. 158)
  - Arts Integration and Learning, Undergraduate Certificate (Peck School of the Arts) (p. 159)
  - Community Arts, Undergraduate Certificate (p. 160)
  - Digital Fabrication and Design, Undergraduate Certificate (p. 161)

- Dance (p. 162)
  - Dance Performance, Minor (p. 171)
  - Dance, BA (p. 172)
  - Dance, BFA (p. 175)
  - Dance, MFA (p. 178)
  - Somatics, Minor (p. 179)

- Film (p. 180)
  - Animation, BA (p. 184)
  - Film, BFA (p. 187)
  - Film, Video, Animation and New Genres, Minor (p. 190)
  - Performing Arts, MFA: Film (p. 191)

- Music (p. 193)
  - Advanced Study in Chamber Music, Graduate Certificate (p. 231)
  - Music Education, BFA: EC-A General Music (p. 235)
  - Music Education, BFA: EC-A Instrumental and General Music (p. 238)
  - Music, BA (p. 241)
  - Music, BFA: Collaborative Piano and Vocal (p. 244)
  - Music, BFA: Guitar (p. 248)
  - Music, BFA: Music Composition and Technology (p. 253)
  - Music, BFA: Music History and Literature (p. 256)
  - Music, BFA: Piano (p. 260)
  - Music, BFA: Strings (p. 264)
  - Music, BFA: Voice (p. 269)
  - Music, BFA: Winds, Brass, and Percussion (p. 272)
  - Music, Minor (p. 276)
  - Music, MM (p. 277)
  - Music, MM/Library and Information Science, MLIS (p. 279)
  - Music, MM: Chamber Music Performance (p. 280)
  - Music, MM: Collaborative Piano: Instrumental (p. 282)
  - Music, MM: Collaborative Piano: Vocal (p. 283)
  - Music, MM: Conducting: Choral Emphasis (p. 284)
  - Music, MM: Conducting: Instrumental (p. 286)
  - Music, MM: Music Education (p. 287)
  - Music, MM: Music History and Literature (p. 289)
  - Music, MM: Performance: Guitar (p. 290)
  - Music, MM: Performance: Keyboard (p. 292)
  - Music, MM: Performance: Percussion (p. 293)
  - Music, MM: Performance: String Emphasis (p. 295)
  - Music, MM: Performance: Vocal Emphasis (p. 296)
  - Music, MM: Performance: Woodwinds, Brass, and Percussion (p. 298)
  - Music, MM: String Pedagogy (p. 300)
  - Music, MM: Theory and Composition (p. 301)

- Theatre (p. 304)
  - Arts and Social Entrepreneurship, Undergraduate Certificate (p. 312)
  - Theatre Teaching Certification, Minor (p. 313)
  - Theatre, BA (p. 313)
  - Theatre, BFA: Performance (p. 318)
  - Theatre, BFA: Production (p. 323)
  - Theatre, Minor (p. 326)
Graduate Requirements
Refer to individual graduate program pages for specific requirements. For the Graduate School's requirements, please refer to Graduate School Policies (p. 22).

Undergraduate Requirements

Admission

New Freshmen
New freshmen must meet the general University admission requirements (p. 13) in addition to specific department requirements. Admission to all music programs requires an audition and a theory placement examination. Admission to the Musical Theatre track of the Inter-Arts degree program requires a live audition interview. A portfolio of artworks is required by the Department of Art & Design. For details, please refer to the individual department sections of this catalog.

Transfer Students
Transfer students from other universities and colleges or UWM units are accepted by the Peck School of the Arts provided they meet the UWM admissions criteria and have a 2.0 cumulative GPA (on a 4-point scale). They must also meet the specific departmental audition requirements described above. Although a portfolio is not required for acceptance into the Department of Art & Design, the submission of a portfolio is helpful in evaluating a student’s work for advanced placement.

Second Bachelor's Degree Candidates
Students with good scholastic records who wish to earn a second bachelor's degree in the Peck School of the Arts must obtain the recommendation of the Peck School of the Arts department in which they wish to major before they can be accepted. Upon acceptance, students must earn in residence a minimum of 30 credits beyond the studies for the first degree and must satisfy all curriculum requirements.

New Major Program
By choosing this program, students who have completed baccalaureate degrees at UWM or other accredited institutions may earn an additional major only. It is not necessary to complete all requirements for an additional baccalaureate degree or to observe the 30-credit-in-residence regulation. At present, the Departments of Art & Design, Dance, Film, and Music offer majors through this option.

Degree Requirements
Students must earn their last 30 credits in residence at UWM. Of this total, a minimum of 15 credits must be in advanced major subjects. Under extraordinary circumstances, a student may receive permission to earn a maximum of 9 credits of the last 30 credits at another college/university but must obtain the written approval of the Director of Student Services prior to enrollment in such courses.

Bachelor of Arts Degree in Animation, Art, Dance, Music, and Theatre
Requires a total of 120 credits. To receive this degree students must:

1. Attain a minimum GPA of 2.0 for all university-level work;
2. Fulfill all the curriculum requirements of the School and of the departmental major, and the University's General Education Requirements;
3. Meet the specific departmental standards; and
4. Fulfill the residence requirements as detailed above.

See the individual department sections in this catalog for additional information.

Bachelor of Fine Arts Degree in Art, Dance, Film, Inter-Arts, Music, or Theatre
Requires a total of 120-130 credits. To receive this degree students must:

1. Attain a minimum GPA of 2.0 for all university-level work;
2. Fulfill all the curriculum requirements of the School and of the departmental major, and the University’s General Education Requirements;
3. Meet the specific departmental standards; and
4. Fulfill the residence requirements as detailed above.

Bachelor of Fine Arts Degree with Teacher Certification in Art or Music and Bachelor of Arts Degree in Theatre with Teacher Certification
The BFA degree in Art Education or Music Education requires a total of 130 credits; the BA degree in theatre with teacher certification requires a total of 120 credits. To receive these degrees students must:

1. Attain a minimum cumulative GPA of 2.75;
2. Fulfill all the curriculum requirements of the School, of the departmental major, and the University's General Education Requirements;
3. Fulfill the certification requirements in human relations (see School of Education section of this catalog), developmental reading, and exceptional education (see Teacher Certification Program (p. ) description below for details and admission requirements);
4. Fulfill the Act 31 certification requirement regarding “specific attention to the history, culture, and tribal sovereignty of the federally recognized American Indian tribes and bands located in this state” through selected coursework. Consult with the Director of Student Services for specific courses; and
5. Fulfill residence requirements as described above.

Post-baccalaureate Teacher Certification Program
Offered in art, music, and theatre. All applicants should consult the appropriate department chairperson concerning requirements in these programs.

Teacher Certification Program - Peck School of the Arts

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

All PSOA teacher education students (art, music, theatre) are required to keep a portfolio of evidence to document satisfaction of PI 34 standards.
Portfolio content is defined, evaluated, and reviewed by individual programs. Passing scores on the Praxis I and successful completion of K-12 required classes are required before admission to student teaching. Art, music, and theatre teacher education students are also required to pass the content test (Praxis II) prior to student teaching. See specific program for more information.

Admission Requirements

All students must complete one course in Developmental Reading Course Requirement.

Forms are available in the Peck School of the Arts Office of Student Services.

Must earn scores in Reading-175, Math-173, Writing-174. Registration Pre-Professional Skills Requirement (PPSR)

MATH 175

a grade of C or higher in the mathematics placement test, or by earning at least 3 credits with a grade of C or higher in MATH 106, MATH 105, MATH 175, or equivalent courses.

Music education majors may apply upon completion of 58 credits and junior standing and the requirements listed below.

Theatre teacher certification students may apply upon completion of the required 32-credit core in the major, junior standing, and the requirements listed below. In addition, theatre certification students must successfully pass an interview with theatre certification faculty.

All students must attain the following before making application to the teacher certification programs in art, music, and theatre:

Grade Point Average. 2.75.

Communication Competency

A grade of C or higher in one of the following: COMMUN 101 or COMMUN 103.

The communicative abilities of students remain under constant review as a factor for retention in the program. Students experiencing communication difficulty may be remanded for remedial work. Students who have satisfactorily completed an interpersonal course at another college or university may request an evaluation of their communication status through the Department of Communication.

English Composition Requirement

The English Composition Requirement is satisfied by earning a grade of C or higher in ENGLISH 102 or its equivalent, or by scoring 637 or better on the English Placement Test (or an appropriate score as determined by the Department of English on the English ACT examination).

Mathematical Skills Requirement

Must be demonstrated by achieving a placement code of at least 30 on the mathematics placement test, or by earning at least 3 credits with a grade of C or higher in MATH 103 (formerly MATH 106), MATH 105, MATH 175, or equivalent courses.

Pre-Professional Skills Requirement (PPSR)

Must earn scores in Reading-175, Math-173, Writing-174. Registration forms are available in the Peck School of the Arts Office of Student Services.

Developmental Reading Course Requirement

All teachers of special subjects (e.g., music, art, theatre) wishing to be certified by the State of Wisconsin (K-12) must complete one course in developmental reading at the elementary or secondary level.

At present, the Department of Curriculum and Instruction offers CURRINS 343, for those interested in the elementary level, and CURRINS 545, for those interested in the secondary level. Only one of these 3-credit courses is necessary to fulfill the requirement. This course may be applied toward the core curriculum requirement.

Exceptional Education Requirement

Persons applying for an initial license to teach any subject in the elementary and secondary schools of Wisconsin after July 1, 1981, must have completed at least 3 credits or the equivalent study of exceptional education to be eligible for a license. See the Art, Dance, Music, or Theatre Department sections for appropriate course requirements.

Student Teaching

Eligibility for student teaching is determined by admission to the Teacher Certification Program of the Peck School of the Arts, departmental recommendation, and completion of all prerequisite courses and any other departmental requirements.

In general, education methods courses are not transferable from other institutions. These courses must be taken in residence. Other criteria include removal of all incompletes in required courses, compliance with the Human Relations Requirement, satisfactory class standing, health clearance, recommendation by the department, and submission of the student teacher application.

Applications to student teach during the first semester are due March 15; during the second semester, October 15. Application blanks are available in, and must be filed with, the Peck School of the Arts Office of Student Services. No applications will be accepted after these dates.

Teacher's License Applications

Students eligible for graduation are not automatically recommended for certification to the State Department of Public Instruction. They must first be approved for certification by their departments.

After all requirements for the BFA or BA degree with Teacher Certification or a post-baccalaureate degree certification program are completed, and the departmental approval is obtained, a student may apply for a state teacher's license. A Wisconsin Credential Application form is available from:

Peck School of the Arts Office of Student Services
UWM
P.O. Box 413
Milwaukee, Wisconsin 53201
or
Wisconsin Department of Public Instruction
126 Langdon Street
Madison, Wisconsin 53702

The Department of Public Instruction conducts a criminal record check of each applicant for a teaching license. Based on this information, an applicant may be denied a license even if recommended for certification by the University.

Declaration of Submajor

In most instances, after two years of basic preparatory courses in the major, students choose an area of specialization within their respective departments, known as a submajor. Students must declare a submajor after they have accumulated 45 to 75 credits in order to assure completion of the appropriate curriculum requirements for graduation.
Graduate Policies and Regulations

The Graduate School policies and regulations can be found at Graduate School Policies (p. 22). Please refer to the specific program for program policies and regulations.

Undergraduate Policies and Regulations

Laptop Requirement in Peck School of the Arts Degree Programs

All students entering the following degree programs/areas in the Peck School of the Arts are required to participate in the PSOA Laptop Program:

- BFA/BA Art & Design;
- BFA/BA Dance;
- BFA Film;
- BFA Music Composition and Technology Track in the Department of Music;
- BFA Production and BA Theatre Education programs in the Department of Theatre; and
- BFA Interdisciplinary Arts and Technology Track (IAT) of the Inter-Arts Program.

This includes students transferring from an institution external to UWM or from another UWM program, school, or college. Requirements will include either the purchase of or regular access to a laptop. The laptop must be equipped to enable students to effectively perform all required coursework, including that accomplished during class time. For additional information, please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop.

Academic Regulations

For information on the University-wide Academic Action Policy and honors for scholarship, see Academic Policies (p. 27).

Semester Credit Load

A full-time Peck School of the Arts student is one who takes a minimum of 12 credits per semester. Normally, Peck School of the Arts students are not permitted to carry more than 18 credits per semester. Students who have a cumulative GPA of 3.0 or higher may, with the permission of the Peck School of the Arts Office of Student Services, carry up to 21 credits per semester.

Program Changes

All program changes must be signed by the instructor and the Peck School of the Arts Office of Student Services.

No studio or performance courses may be dropped after the second week of classes without the written approval of the instructor and the department chairperson. Certain other courses may require this approval also and these will be indicated in the semester’s Schedule of Classes.

Audit Courses

No studio or performance courses may be audited.

Independent Study

Under special conditions, juniors and seniors are permitted to take courses in independent study. For regulations on independent study, see the departmental advisor.

Special Opportunities

Honors Program

The Peck School of the Arts confers a Bachelor of Fine Arts Honors degree upon those students who complete the University Honors Program. The "Honors" designation appears on both the diploma and transcript.

This program offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences to qualified students who desire more intensive and individualized studies. Application forms and further information are available from the Honors College (p. 36), Honors House 154, (414) 229-4658.

Foreign Study

The Peck School of the Arts looks favorably upon foreign educational experiences and encourages students to seek study abroad at accredited institutions. Every effort will be made to integrate such courses into a student’s major program. Students should consult the departments involved prior to registration at a foreign university.

Periodically, the Department of Art & Design offers credit courses in foreign countries under the direction and instruction of Department of Art & Design faculty members.

Administration

Scott Emmons
Dean

Robert Grame
Associate Dean

James Burmeister
Interim Assistant Dean

Amanda Obermeyer
Assistant Dean for Business Administration

Louis Molina
Assistant Dean for Student Services

Rebecca Christman
Assistant to the Dean

Contact Information

Peck School of the Arts Office of Student Services

Phone: (414) 229-4763
psoa-advising@uwm.edu
http://uwm.edu/arts/advising/
ART & DESIGN

Art & Design at UW-Milwaukee develops creative thinkers, artist professionals, and cultural leaders through a cross-disciplinary curriculum that balances innovation, traditional craftsmanship, critical thinking, and scholarly civic engagement. Committed to Milwaukee’s diverse urban communities, our programs emphasize activism and thinking with the arts. Our faculty is comprised of active artists who promote collaborative, interdisciplinary, and entrepreneurial thinking and practice across the department, university, community, and beyond!

Programs

- Art and Design, Minor: Community Arts (p. 108)
- Art and Design, Minor: Design (p. 109)
- Art and Design, Minor: Photography (p. 109)
- Art and Design, Minor: Studio (p. 110)
- Art Education, BFA (p. 110)
- Art Education, MS (p. 114)
- Art, BA: Community Arts (p. 115)
- Art, BA: Design Studies (p. 118)
- Art, BA: Digital Fabrication and Design (p. 121)
- Art, BA: Studio Arts (p. 124)
- Art, BFA: Ceramics (p. 126)
- Art, BFA: Design and Visual Communication (p. 129)
- Art, BFA: Digital Studio Practice (p. 133)
- Art, BFA: Fibers (p. 136)
- Art, BFA: Jewelry and Metalsmithing (p. 139)
- Art, BFA: Painting and Drawing (p. 143)
- Art, BFA: Photography and Imaging (p. 146)
- Art, BFA: Print and Narrative Forms (p. 149)
- Art, BFA: Sculpture (p. 152)
- Art, MA: Design Entrepreneurship and Innovation (p. 155)
- Art, MA: Studio Art (p. 157)
- Art, MFA (p. 158)
- Arts Integration and Learning, Undergraduate Certificate (Peck School of the Arts) (p. 159)
- Community Arts, Undergraduate Certificate (p. 160)
- Digital Fabrication and Design, Undergraduate Certificate (p. 161)

Graduate Requirements

Refer to the individual graduate program for specific requirements. For the Graduate School’s requirements, please refer to Graduate School Policies (p. 22)

Undergraduate Requirements

Laptop Requirement

Laptops are required for all Art & Design programs (http://uwm.edu/arts/apply/laptop). The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

Bachelor of Fine Arts (Studio Art)

This undergraduate degree prepares students for entrance into professional art fields. Once students meet the 36-credit Art-Intended requirements, they are admitted to the Art & Design program. In addition to satisfying the core curriculum, art students select studio courses from both 2D and 3D disciplines, take required art history courses, choose studio electives, and begin satisfying the requirements of their declared art area concentration.

A choice of curricula is offered to permit students to concentrate in Ceramics, Digital studio practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography and Imaging, Print and Narrative Forms, or Sculpture. Students must complete a minimum of 24 credits in their area of concentration but may take more by choosing additional studio electives in their area.

In order to graduate, students must complete two 3-credit critical thinking courses and a 4-credit capstone: ART 604 and ART 605. Students must complete a total of 85 credits of art to graduate with a BFA (Studio Art).

The Bachelor of Fine Arts (Studio Art) degree requires a total of 130 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University Core Curriculum (includes 12 credits Art History and 9 credits PSOA Arts Distribution)</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>First Year Program</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Art and Design Courses</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>Critical Thinking</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>130</td>
</tr>
</tbody>
</table>

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Bachelor of Fine Arts (Studio Art) in Design and Visual Communication

The Bachelor of Fine Arts in Design and Visual Communication degree requires a total of 130 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University Core Curriculum (includes 12 credits Art History and 9 credits PSOA Arts Distribution)</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>First Year Program</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Art and Design Courses</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>Critical Thinking</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>130</td>
</tr>
</tbody>
</table>

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Bachelor of Fine Arts (Art Education)

The Art Education program requires a total of 130 credits for graduation distributed as follows:
they understand fully what will be required of them. Students who successfully matriculate as BFA degree candidates should make themselves familiar with the requirements of their chosen area (as outlined in the undergraduate catalog). Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Bachelor of Arts (Art)
The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum (includes 12 credits Art History, 9 credits Education, and 6 credits PSOA Arts Distribution)</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>First Year Program</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Required Studio Courses</td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art Education Courses</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>130</td>
</tr>
</tbody>
</table>

Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in two of the four other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty.

1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ [http://uwm.edu/arts/apply/].)
2. Portfolio of artworks. Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.
3. Statement of Intent. Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming new freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/apply [http://uwm.edu/arts/apply].

Appeal Process

An appeal process is established for students who do not meet the department's criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher.
1. Complete First Year Program courses (15 credits; see course list below).
2. Oral and Written Communications Competency Part A (OWC-A).
4. A cumulative GPA of 2.5 or higher.
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

### Code | Title | Credits
---|---|---
ART 101 | Drawing I | 3
ART 106 | Art Survey | 3
ART 108 | 2D Concepts | 3
ART 109 | 3D Concepts | 3
ART 118 | Digital Arts: Culture, Theory, Practice | 3

**Total Credits: 15**

### Art Education Advancement to Major

Art Ed Intended designation is given to all students intending to pursue the BFA (Art Education). Art Ed Intended students will get priority registration in art courses over non-major majors. Art Ed Intended students may apply to this program upon completion of 30 art credits if the following requirements have been fulfilled:

1. First Year Program courses in art (see Art Education BFA requirements (p. 110)).
2. Oral and Written Communication Competency (Part A).
3. Quantitative Literacy Competency (Part A).
5. 2.75 cumulative grade point average (GPA).
6. Dept. of Public Instruction (DPI) Act 31 requirement. (This can be met by taking the Act 31 Workshop, HIST 263, AIS 203, ANTHRO 213, or ENGLISH 276, subtitled "Literature, History, and Sovereignty of Upper Midwest Indians" only.)
7. Completion of ART ED 227 Introduction to Art Education, with a B or higher.

After successful completion of the above, students should contact the Peck School of the Arts Student Services Office by April 15 to get permission to enroll in ART ED 327.

For further details and procedures, see the teacher certification degree requirements (p. 82) on the Peck School of the Arts catalog page.

### Program-to-Program Articulation Agreements

The Department of Art & Design has Program-to-Program Articulation Agreements with several regional and international institutions, including the following agreements with the Milwaukee Area Technical College’s (MATC) Graphic Design Associate Degree Program, Waukesha County Technical College’s (WCTC) Graphic Design Associate Degree Program, and with the Hubei University of Technology in Wuhan, China.

### MATC Graphic Design Associate Degree and UWM Bachelor of Arts (Art) in Design Studies Degree Program

MATC students who have successfully completed the Graphic Design AAS degree will be granted junior status in the UWM PSOA A&D BA in Design Studies program.

Laptops are required for the BA in Design Studies program.

Students need a 2.50 GPA from MATC and need to complete the OWC-A and QL-A requirements for UWM while at MATC. It’s advisable that students also complete the Social Sciences, Natural Sciences, and Cultural Diversity GER requirements as part of their MATC Graphic Design Associate Degree. Students should select from approved GER courses (SS, NS, NS+, CD/8). Students need to complete the UWM Foreign Language proficiency: two years of the same Foreign Language in High School, or two semesters of Foreign Language at MATC or UWM.
MATC students will enter the Department of Art & Design with up to 72 credits, and will take 58 credits minimum to complete the BA in Design Studies.

Program-to-Program transfer courses/credits are accepted only for the program/degree specified in this agreement. A change of major/degree/program invalidates these courses/credits for transfer unless they are approved within another Program-to-Program Articulation Agreement for a different major/degree/program at UWM.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 422</td>
<td>Design Methodologies: Process, Communication &amp; Theory</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Year 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 427</td>
<td>Advanced Design Workshop: (Design Studies BA Supervision)</td>
<td>1</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>1</td>
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<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
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<tr>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Elective</td>
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<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>58</td>
</tr>
</tbody>
</table>

WCTC Graphic Design Degree and UWM Bachelor of Arts (ART) in Design Studies Degree Program

WCTC students who have successfully completed the Graphic Design AAS degree will be granted junior status in the UWM PSOA A&D BA in Design Studies program.

Laptops are required for the BA in Design Studies program.

Students need a 2.5 GPA from WCTC and need to complete the prerequisite to OWC-A (801-195) and QL-A (804-118) requirements for UWM while at WCTC. It’s advisable that students also complete the Social Sciences requirements as part of their WCTC Graphic Design Associate Degree. Students should select from approved GER courses (SS). Students need to complete the UWM Foreign Language proficiency: 2 years of the same Foreign Language in High School, or 2 semesters of Foreign Language at WCTC or UWM.

WCTC students will enter the Department of Art & Design with up to 67 credits, and will take 56 credits minimum to complete the BA in Design Studies.

Program-to-Program transfer courses/credits are accepted only for the program/degree specified in this agreement. A change of major/degree/program invalidates these courses/credits for transfer unless they are approved within another Program-to-Program Articulation Agreement for a different major/degree/program at UWM.

Four-semester course sequence for completion of the WCTC/UWM BA in Design Studies at UWM:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 3</td>
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<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 422</td>
<td>Design Methodologies: Process, Communication &amp; Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>GER Natural Science</td>
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<td>Credits</td>
<td></td>
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<tr>
<td>Year 4</td>
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<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
<td>3</td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>GER Natural Science Lab</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 427</td>
<td>Advanced Design Workshop: (Design Studies BA Supervision)</td>
<td>1</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>1</td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>56</td>
</tr>
</tbody>
</table>

HUBEI 3+1 Bachelor of Arts (ART) Degree Programs

The Department of Art & Design and the Hubei University of Technology in Wuhan, China, have created a unique program for the students at Hubei University to finish their BA degree at UWM. There are two 3+1 BA tracks: Design Studies and Digital Fabrication and Design.

Laptops are required for both 3+1 BA programs. The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

Hubei 3+1 BA in Design Studies

Students will enter UWM with 90 credits towards the BA in Design Studies (see sequence for Freshman, Sophomore, and Junior years.
The Senior year sequence of courses at UWM for the Hubei 3+1 BA in Design Studies follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>Optional: 1</td>
<td></td>
</tr>
<tr>
<td>EAP course (3 cr.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art Directed Elective (3 cr.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>EAP 118</td>
<td>Advanced College Writing in English as a Second Language/English 101</td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
<td>3</td>
</tr>
<tr>
<td>ART 321</td>
<td>Design and Visual Communication I</td>
<td>3</td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 427</td>
<td>Advanced Design Workshop: (Design Studies BA Supervision)</td>
<td>1</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
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</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar</td>
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<tr>
<td>ART 524</td>
<td>Professional Practice in Design</td>
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<tr>
<td>Credits</td>
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<tr>
<td>Total Credits</td>
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</tr>
</tbody>
</table>

1 Note: Summer Session is optional. Students who participate in summer session have the opportunity to gain more English language experience before beginning the fall semester, and also have the option to take extra electives during the year or spread out the required courses over 2 semesters + summer for a less-full workload.

HUBEI 3+1 BA in Design and Digital Fabrication

Students will enter UWM with 90 credits towards the BA in Digital Fabrication and Design (see sequence for Freshman, Sophomore, and Junior years above). The Senior year sequence of courses at UWM for the Hubei 3+1 BA in Design and Digital Fabrication follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 4</td>
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<tr>
<td>Summer</td>
<td>Optional: 1</td>
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<tr>
<td>EAP course (3 cr.)</td>
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<tr>
<td>Art Directed Elective (3 cr.)</td>
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<td>EAP 118</td>
<td>Advanced College Writing in English as a Second Language/English 101</td>
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<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
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<tr>
<td>ART 378</td>
<td>Industrial Processes and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 578</td>
<td>Research in Digital Fabrication and Craft: (subtitle)</td>
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<tr>
<td>ART 604</td>
<td>Professional Practices</td>
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<td>Spring</td>
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<td>ENGLISH 102</td>
<td>College Writing and Research</td>
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<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
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<tr>
<td>ART 505</td>
<td>BA Project</td>
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<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar</td>
<td>3</td>
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</tbody>
</table>
ART 108 2D Concepts
3 cr. Undergraduate.
An introduction to visual problem solving. Organization of the two-dimensional plane using the elements and principles of design. Includes the study of black and white and the basics of color.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 109 3D Concepts
3 cr. Undergraduate.
An introduction to three-dimensional design through constructed surface and form studies, tool usage and fabrication techniques.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 118 Digital Arts: Culture, Theory, Practice
3 cr. Undergraduate.
Introduction to electronic art and imaging. Focus on historical and cultural contexts, theoretical concepts and studio skills using imaging software.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 124 Design Survey
3 cr. Undergraduate.
Survey of design disciplines and movements of the 19th, 20th and 21st centuries. Slide lectures include industrial design, architecture, graphic design, and design movements.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req'd service learning component. Jointly offered with & counts as repeat of Film 150.
General Education Requirements: CD, A
Current Offerings: http://uwm.edu/schedule

ART 152 Photography Survey
3 cr. Undergraduate.
Survey of photographic processes and movements of the 19th, 20th, and 21st centuries, with emphasis on historical and cultural contexts that shaped the application of the medium.
Prerequisites: none
General Education Requirements: A
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 201 Drawing II
3 cr. Undergraduate.
Expanded development of drawing materials, methods and expression; focus on conceptual and perceptual process.
Prerequisites: Art 101(P).
Current Offerings: http://uwm.edu/schedule

ART 207 Undergraduate Research Assistantship in Art and Design
1-3 cr. Undergraduate.
An opportunity for freshmen and sophomores to work collaboratively with an Art and Design faculty member on a specific and sustained research project.
Prerequisites: admis to First Year Prog or Art & Design, & cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ART 212 Introduction to Digital Studio: A/V Strategies
3 cr. Undergraduate.
Introduction to time based technologies for artists and designers; includes audio, video, and animation techniques. Surround sound, lighting, green screen, and visual effects are examined.
Prerequisites: Art 101(P), 108(P); or cons instr.
General Education Requirements: A
Last Taught: UWinterI 2015, Summer 2013, Fall 2011, UWinterI 2011.
Current Offerings: http://uwm.edu/schedule

ART 218 2D Design Strategies
3 cr. Undergraduate.
Introduction to problem solving using the basics of drawing and elements & principles of design; includes composition & color theory.
Prerequisites: none.
Course Rules: Not open to Art & Design and Art Ed majors.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 221 Introduction to Design
3 cr. Undergraduate.
Introduction to computer as design and production tool for graphic design, use software to create graphics, edit images and design complex layouts.
Prerequisites: Art 101(P), 106(P), 108(P), & 118(P); or admis to Inter-Arts/IAT prog & Art 118(P); Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ART 223 Introduction to Typography
3 cr. Undergraduate.
Introduction to the fundamentals of designing with type; emphasis on formal design skills, type history, conceptual problem-solving.
Prerequisites: Art 101(P), 106(P), 108(P), 109(P), 118(P) & 221(C); Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 224 Dynamic Typography
3 cr. Undergraduate.
Fundamentals of designing with type; emphasis on formal design skills, conceptual problem solving. Focus on screen-based projects and type in motion, some print design.
Prerequisites: Art 101(P), 108(P), & 118(P); or pre-Inter-Arts/IAT prog; Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2011, Fall 2010, Fall 2009, Spring 2009.
Current Offerings: http://uwm.edu/schedule

ART 227 Design Workshop:
3 cr. Undergraduate.
A concept oriented workshop in graphic design.
Prerequisites: see Schedule of Classes. Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, UWinteriM 2012.
Current Offerings: http://uwm.edu/schedule

ART 231 Introduction to Fibers
3 cr. Undergraduate.
Introduction to fiber materials and processes and contemporary aesthetic consideration in fiber arts.
Prerequisites: Art 101(P), 108(P) or 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 238 Fiber Workshop:
3 cr. Undergraduate.
Special topics course in fibers.
Prerequisites: see Schedule of Classes; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 243 Introduction to Painting
3 cr. Undergraduate.
Exploration of oil painting medium including color and construction of pictorial space. Work primarily from observation, investigating range of motifs and personal content.
Prerequisites: Art 101(P), 106(P), & 108(P); Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 249 Painting and Drawing Workshop:
1-3 cr. Undergraduate.
Special topic course in painting and drawing.
Prerequisites: admis to Art and Design Prog.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 253 Introduction to Photography
3 cr. Undergraduate.
Fundamental aesthetics/techniques of darkroom/digital photography using digital cameras & 35mm SLR film cameras; focus on camera operation, image exposure, printing practice for b/w compositions.
Prerequisites: Art 108(P), or 118(P), or 152(P), or Film 117(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr
Current Offerings: http://uwm.edu/schedule

ART 259 Beginning Photographic Workshop:
1-3 cr. Undergraduate.
Beginning special topic workshop course in photography.
Prerequisites: admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2015, Fall 2014, UWinteriM 2013, Summer 2009.
Current Offerings: http://uwm.edu/schedule

ART 261 Introduction to Sculpture
3 cr. Undergraduate.
Basic experiences in various sculpture media with an emphasis on the asethetic interrelarship of techniques and concept.
Prerequisites: Art 101(P), 106(P) & 109(P); Math 102(C), 103(C), 105(C), or 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 269 Sculpture Workshop:
1-3 cr. Undergraduate.
A short term, special topic workshop in sculpture.
Prerequisites: see Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 271 Introduction to Jewelry and Metalsmithing
3 cr. Undergraduate.
Introduction to major aspects of metalworking and jewelry. Develop design skills and technical competency and explore metalsmithing as an art form. Outside class work required.
Prerequisites: Art 101(P), 106(P), & 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 277 Design for Digital Fabrication
3 cr. Undergraduate.
Introduction digital design, drawing and fabrication using 3D modeling software and output devices such as 3D printers and laser cutters.
Prerequisites: Art 118(P) or equiv; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ART 278 Introduction to Industrial Craft  
3 cr. Undergraduate.  
Introduction to fabrication methods, materials and techniques for problem-solving in the design of physical objects.  
Prerequisites: Art 277(C); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.  
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

ART 279 Jewelry and Metalsmithing Workshop:  
1-3 cr. Undergraduate.  
Special topics workshop in jewelry and metalsmithing.  
Prerequisites: see Schedule of Classes.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Summer 2017, Summer 2016, Summer 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

ART 281 Introduction to Ceramics  
3 cr. Undergraduate.  
Handbuilding, surface embellishment and glazing of functional and sculptural ceramic forms. Slide lectures of historical and contemporary approaches to the medium.  
Prerequisites: Art 101(P), 106(P), & 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

ART 289 Ceramics Workshop:  
1-3 cr. Undergraduate.  
A short term, special topic workshop in ceramics.  
Prerequisites: see Schedule of Classes.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Fall 2015, Fall 2013, Fall 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

ART 291 Introduction to Print and Narrative Forms  
3 cr. Undergraduate.  
Introduction to basic studio practices, skills, and materials including plates, presses, inks, and image processing.  
Prerequisites: Art 101(P), 106(P), & 108(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

ART 297 Study Abroad:  
1-12 cr. Undergraduate.  
Study abroad in the visual arts.  
Prerequisites: admis to Art and Design Prog; acceptance in Study Abroad Prog.  
Course Rules: May be retaken with topic change.  
Last Taught: Fall 2017, Spring 2017, Summer 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

ART 298 Printmaking Workshop:  
3 cr. Undergraduate.  
A special topic workshop in Print & Narrative Forms.  
Prerequisites: see Schedule of Classes.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Spring 2013, Summer 2012, Summer 2011, Fall 2010.  
Current Offerings: http://uwm.edu/schedule

ART 302 Art and Design Workshop:  
3 cr. Undergraduate/Graduate.  
Special topic course in Art and Design.  
Prerequisites: jr st, & admis to Art and Design prog or to IAT; or grad st.  
Course Rules: May be retaken with topic change to 6 cr max.  
Current Offerings: http://uwm.edu/schedule

ART 306 Introduction to Community Art  
3 cr. Undergraduate.  
Study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals.  
Prerequisites: admis to Art & Design, Multicultural America 150(P) (in any area).  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

ART 309 Issues in Contemporary Art:  
3 cr. Undergraduate.  
Lecture course focused on critical issues/theory in contemporary art and culture.  
Prerequisites: soph st or cons instr.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
General Education Requirements: A, CD

ART 312 Intermediate Digital Studio  
3 cr. Undergraduate/Graduate.  
Students investigate the relationship between concept, material, process, aesthetic, and context in artmaking. Then, students are encouraged to integrate digital and traditional approaches to production.  
Prerequisites: jr st & admis to Art & Design prog or IAT prog; & Art 212(P) or Film 222(P); or grad st; or cons instr.  
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.  
Current Offerings: http://uwm.edu/schedule

ART 313 Programming for Artists I  
3 cr. Undergraduate/Graduate.  
An introduction to principles and applications of computer programming languages within art practice.  
Prerequisites: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.  
Course Rules: Art 313 & FineArt 313 are jointly offered, they count as repeats of one another.  
Last Taught: Spring 2018.  
Current Offerings: http://uwm.edu/schedule

ART 314 Digital Painting  
3 cr. Undergraduate.  
Use image-editing/painting software and tablets to generate digital paintings. Traditional rendering techniques will be considered along with color and kinetic concepts.  
Prerequisites: soph st & Art 118 (P); or cons instr.  
Course Rules: Counts as repeat of Art 302 w/same topic.  
Last Taught: Fall 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule
**ART 315 Participatory Art and Social Practice**
3 cr. Undergraduate/Graduate.
Students study installation and eco-art, participatory art and social practice, and incorporate contemporary concepts and their strategies into individual and collaborative work.
**Prerequisites:** jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.
**Course Rules:** Counts as repeat of Art 327 w/similar topic.
**Last Taught:** Fall 2017, Fall 2016, Fall 2015.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 316 Interactive and Multimedia Art**
3 cr. Undergraduate/Graduate.
An introduction to interactive art objects and installations using computer vision, signal processing, and/or MIDI and USB technologies.
**Prerequisites:** jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.
**Course Rules:** Art 316 & FineArt 316(211) are jointly offered; they count as repeats of one another.
**Last Taught:** Spring 2018, Spring 2017, Fall 2015, Fall 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 317 3D Imaging I**
3 cr. Undergraduate/Graduate.
An introduction to 3D imaging techniques and applications.
**Prerequisites:** jr st; admis to Art and Design prog or Inter-Arts/IAT prog; grad st; or cons instr.
**Last Taught:** Summer 2017, Summer 2012, Spring 2012, Spring 2011.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 318 Electronics and Sculpture**
3 cr. Undergraduate.
Art production using interactive systems such as sensors, microcontrollers, motors, lights.
**Prerequisites:** Admis to Art and Design prog or IAT prog; or cons instr.
**Last Taught:** Fall 2017, Fall 2016, Spring 2016, Spring 2015.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 319 Hybrid Sculptural Forms:**
3 cr. Undergraduate.
Introduction to concrete computing for artists, including robotics, interactive systems; basic programming, and soldering/assembly. Emphasis on production of object oriented art.
**Prerequisites:** Admis to Art and Design prog or Inter-Arts/IAT prog; & Art 118(P); or cons instr.
**Course Rules:** May be retaken w/chg in topic to 6 cr max. Art 319 & FineArt 319 are jointly offered & count as repeats of each other.
**Last Taught:** Spring 2010.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 321 Design and Visual Communication I**
3 cr. Undergraduate.
Basic forms and concepts for design and visual communication. Basic professional and academic concepts explored through studio assignments, lectures and readings.
**Prerequisites:** admis to Art and Design prog, grade of B- or better in Art 124(P), 221(228)(P), 223(P) & successful completion of Design and Visual Communication portfolio review.
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 322 Topics in Illustration:**
3 cr. Undergraduate.
Application of design and media skills to illustration problems. Interrelation of image and typography in various graphic forms.
**Prerequisites:** soph st & admis to Art and Design Program; or cons instr.
**Course Rules:** May be retaken w/chg in topic to max of 6 cr.
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 323 Typography II**
3 cr. Undergraduate.
Continuation of Art 223; more advanced application of typography in categories of informational and publication design; emphasis on contemporary typographic concepts and designs.
**Prerequisites:** grade of B- or better in Art 321(229)(P); 3 cr min Graphic Design expanded studies (grade of C or better).
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 324 Web Design**
3 cr. Undergraduate.
Introduction to design for the Internet: information architecture, hypertextuality, creative and client-based sites, critical issues of Internet culture; fundamentals of markup languages, CSS, and software.
**Prerequisites:** admis to Art and Design prog or pre-Inter-Arts/IAT prog, & Art 118(P); or grad st; or cons instr.
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 325 Web Design II**
3 cr. Undergraduate.
Exploration of responsive design using HTML, CSS and prototyping tools/frameworks; focus on design for usability across devices.
**Prerequisites:** admis to Art and Design prog or Inter-Arts/IAT prog; & Art 324(P); or grad st; or cons instr.
**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 327 Digital Media Workshop:**
3 cr. Undergraduate.
A concept oriented workshop in digital media.
**Prerequisites:** soph st, admis to Visual Art prog or Inter-Arts/IAT prog; or cons instr. See Schedule of Classes for additional prereq.
**Course Rules:** FineArt 327(351) & Art 327 are jointly offered & count as repeats of each other. May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2013.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 332 Woven Structure I**
3 cr. Undergraduate.
Contemporary concepts in weaving using various materials and loom techniques.
**Prerequisites:** Admis to Art and Design Prog & Art 231(P); or cons instr.
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Fall 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ART 333 Pliable Materials/Sculptural Forms**
3 cr. Undergraduate.
Contemporary concepts in fiber construction using various materials & hand construction techniques.
**Prerequisites:** Admis to Art and Design Prog & Art 231(P); or cons instr.
**Last Taught:** Fall 2017, Fall 2016, Spring 2014, Fall 2011.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
ART 336 Print, Paint and Dye on Fabric
3 cr. Undergraduate.
Batik, tie-dye and direct application of dyes and pigments on textiles.
Prerequisites: admis to Art and Design Prog & Art 231(P); or cons instr.
Last Taught: Spring 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ART 337 Screen Printing on Fabric
3 cr. Undergraduate.
Design and repeat pattern through the screen printing process on textiles. Use of dyes and pigments, stencil design and cloth construction.
Prerequisites: admis to Art and Design Prog & Art 231(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

ART 342 Introduction to Figure Drawing
3 cr. Undergraduate.
Exploration of the figure through traditional and contemporary interpretations using a variety of drawing mediums.
Prerequisites: Art 101(P), 201(102)(P), 106(P), & 108(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 343 Figure Painting
3 cr. Undergraduate.
Traditional and contemporary approaches to figurative painting explored through art historical examples, expanded media/techniques and the development of personal direction.
Prerequisites: Art 342(P) & 243(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 344 Watercolor
3 cr. Undergraduate.
Painting in transparent watercolor. Introduction to basic principles and techniques.
Prerequisites: admis to Art and Design prog.
Current Offerings: http://uwm.edu/schedule

ART 347 Reading Works of Art
3 cr. Undergraduate/Graduate.
An advanced course in the visual ‘reading’ of works of art from the artists’ point of view. Course includes slide lecture, with discussion. Student presentation required.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

ART 350 Visualizing Ideas in Photography
3 cr. Undergraduate.
Critical theory and practices in photography, along with the aesthetic and technical challenges of digital photography and color capture, concentrating on camera operation, digital workflow practice and digital printing.
Prerequisites: Art 108(P), 118(P) or Film 117(P); & Art 253(P), 212(P), 221(P) or 291(P); & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 357 Studio Lighting & Digital Imaging
3 cr. Undergraduate/Graduate.
Aesthetic and technical challenges of lighting in the studio and other locations, along with an introduction to digital imaging strategies for photographers.
Prerequisites: Art 118(P) or Film 117(P), & Art 253(P) or Art 221(P), & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 253; or grad st; or cons instr.
Current Offerings: http://uwm.edu/schedule

ART 358 Medium and Large Format Photography
3 cr. Undergraduate/Graduate.
Aesthetic and technical challenges of analog photography with medium and large format cameras, addressing image pre-visualization, image scale, contrast control, photographic developers, scanning, paper surfaces, and fine art printing.
Prerequisites: jr st & Art 253(P) or Film 117(P) & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 253(P); or grad st; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ART 359 Intermediate Photography Workshop:
1-3 cr. Undergraduate.
Intermediate special topic workshop course in photography.
Prerequisites: soph st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 363 Form and Materials
3 cr. Undergraduate.
Intermediate level experiences in an expanding range of sculpture processes. Development of expressive awareness through lectures, critiques, discussion and demonstrations.
Prerequisites: admis to Art and Design prog & Art 261(P).
Current Offerings: http://uwm.edu/schedule

ART 364 Sculpture II
3 cr. Undergraduate.
Continuation of Art 363.
Prerequisites: Art 363(P).
Current Offerings: http://uwm.edu/schedule

ART 365 Foundry Techniques
3 cr. Undergraduate.
Basic and advanced techniques using new and traditional moldmaking technologies. Fields trips to iron pours and conferences when possible.
Prerequisites: admis to Art and Design prog & Art 261(P).
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule
ART 366 Between Painting and Sculpture  
3 cr. Undergraduate/Graduate.  
A studio laboratory consisting of a wide spectrum of techniques and ideologies, concentrating on the exploration of joining painting and sculpture as a consummate form.  
Prerequisites: jr st; Art 261(P).  
Current Offerings: http://uwm.edu/schedule

ART 368 Sculptural Practices:  
3 cr. Undergraduate.  
Intermediate level course in specialized sculpture processes & skills.  
Prerequisites: admis to Visual Art prog & Art 261(P).  
Course Rules: May be retaken w/chg in topic to 15 cr max.  
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

ART 369 Sculpture Workshop:  
3 cr. Undergraduate.  
A special topic workshop in sculpture.  
Prerequisites: admis to Art and Design prog & Art 261(P).  
Course Rules: May be retaken w/chg in topic change to 6 cr max.  
Last Taught: Fall 2014, Fall 2013, UWinteriM 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

ART 370 Combining Photography, Painting, Sculpture  
3 cr. Undergraduate.  
An introduction to combination processes and techniques of painting, sculpture, and photography.  
Prerequisites: admis to Art and Design prog & Art 271(P).  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

ART 371 Construction and Fabrication in Jewelry and Metalsmithing  
3 cr. Undergraduate.  
Exploration of construction and fabrication methods and expansion of the aesthetic, physical, functional and cultural vocabulary of specific metalsmithing techniques. Four hours studio monitoring mandatory.  
Prerequisites: admis to Art and Design prog & Art 271(P).  
Current Offerings: http://uwm.edu/schedule

ART 372 The Multiple in Jewelry and Metalsmithing  
3 cr. Undergraduate.  
Introduces formal and conceptual issues associated with multiples as an art making strategy, using traditional and experimental casting processes. Four hours studio monitoring mandatory.  
Prerequisites: admis to Art and Design prog & Art 271(P).  
Current Offerings: http://uwm.edu/schedule

ART 374 Printmaking  
3 cr. Undergraduate.  
Lithography, intaglio, relief, screenprinting, and photopolymer.  
Prerequisites: admis to Art and Design prog & Art 281(P).  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

ART 375 Contemporary Printmaking  
3 cr. Undergraduate.  
The processes, techniques, and philosophical bases of printmaking.  
Prerequisites: admis to Art and Design prog & Art 281(P).  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

ART 376 Between Painting and Sculpture  
3 cr. Undergraduate/Graduate.  
A studio laboratory consisting of a wide spectrum of techniques and ideologies, concentrating on the exploration of joining painting and sculpture as a consummate form.  
Prerequisites: jr st; Art 261(P).  
Current Offerings: http://uwm.edu/schedule

ART 378 Industrial Processes and Fabrication  
3 cr. Undergraduate/Graduate.  
Survey of fabrication methods with emphasis on manipulation of material through industrial processes. Four hours studio monitoring mandatory.  
Prerequisites: Art 261(P), or Art 271(P), or Art 278(P); or grad st; or cons instr.  
Current Offerings: http://uwm.edu/schedule

ART 379 Jewelry and Metalsmithing Workshop:  
1-3 cr. Undergraduate.  
Special topics workshop in jewelry and metalsmithing.  
Prerequisites: admis to Art and Design prog & Art 271(P).  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Fall 2014, Summer 2014, Summer 2013, Summer 2012.  
Current Offerings: http://uwm.edu/schedule

ART 381 Throwing and Wheel Construction  
3 cr. Undergraduate.  
Introduction to the potter's wheel as a forming tool, including integration of hand built and wheel thrown forms, and basic glaze formulation.  
Prerequisites: admis to Art and Design prog & Art 281(P).  
Current Offerings: http://uwm.edu/schedule

ART 382 Building from the Figure in Clay  
3 cr. Undergraduate.  
Human form in clay through observation, drawing and modeling using a variety of ceramic construction methods. Individual conceptual and expressive approaches emphasized.  
Prerequisites: admis to Art and Design prog & Art 281(P); or cons instr.  
Last Taught: Fall 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

ART 383 Molds and Multiples in Ceramics  
3 cr. Undergraduate.  
Moldmaking for ceramics focusing on plaster molds. Press molds and slip casting methods for replication of forms in series, and issues of multiplicity are addressed.  
Prerequisites: admis to Art and Design prog & Art 281(P); or cons instr.  
Last Taught: Fall 2015, Fall 2013, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

ART 384 Experimental Processes in Woodfiring I  
3 cr. Undergraduate.  
Contemporary approaches to the ancient process of woodfiring. Development of personal aesthetic using woodfire effects on functional and sculptural work. Technical research, firing participation required.  
Prerequisites: admis to Art and Design prog & Art 281(P); or cons instr.  
Current Offerings: http://uwm.edu/schedule

ART 389 Ceramics Workshop:  
1-3 cr. Undergraduate.  
A short term special topic workshop in ceramics.  
Prerequisites: admis to Art and Design prog & Art 281(P); or cons instr.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

ART 391 Intermediate Print & Narrative Forms:  
3 cr. Undergraduate.  
Continuation of Print and Narrative Forms with focused studio investigations in specialized print media and book arts techniques.  
Prerequisites: Admis to Art and Design prog; and Art 291(P); or grad st; or cons instr.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

ART 392 Lithography  
3 cr. Undergraduate/Graduate.  
Studio work based on stone and plate lithography; lectures on history, multicolor printing, polyester plate and experimental techniques in lithography.  
Prerequisites: Art 291(P); or grad st & cons instr.  
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2013.  
Current Offerings: http://uwm.edu/schedule
ART 393 Digital Printmaking  
3 cr. Undergraduate.  
A studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics.  
**Prerequisites:** admits to Art and Design prog & Art 291(P), 221(P), or 253(P); or admis to Inter-Arts/IAT; or cons instr.  
**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 394 Intaglio  
3 cr. Undergraduate/Graduate.  
Studio work in intaglio; drypoint engraving, etching, relief-intaglio; aquatint, experimental procedures, color printing, development of personal graphic concept.  
**Prerequisites:** Art 291(P); or grad st & cons instr.  
**Last Taught:** Spring 2018, Spring 2017, Fall 2014, Spring 2013.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 396 Photo Screenprinting  
3 cr. Undergraduate/Graduate.  
Screen-print process using the photo-stencil to reproduce hand-drawn and computer manipulated marks and images; printing skills, experimentation with materials and multiple reproduction.  
**Prerequisites:** Art 291(P), 253(P), 231(P), or 221(P); or grad st & cons instr.  
**Last Taught:** Spring 2014, Spring 2012, Fall 2010, Spring 2009.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 397 Book Arts Workshop  
3 cr. Undergraduate/Graduate.  
Studio work exploring traditional and experimental book structures. Media/content focus variable to include array of relevant topics.  
**Prerequisites:** jr st; or grad st; or cons instr.  
**Course Rules:** May be retaken to 6 cr max.  
**Last Taught:** Spring 2015, Spring 2014, Fall 2012, Spring 2011.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 398 Photo Printmaking  
3 cr. Undergraduate.  
Studio practice in the use of photo-sensitized plates, various printmaking processes (intaglio, lithography, relief) with emphasis on multiple plate color printing.  
**Prerequisites:** admits to Art and Design prog & Art 291(P) or 253(P).  
**Last Taught:** Fall 2014, Fall 2012, Fall 2010, Spring 2009.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 402 Art and Design Workshop  
1-3 cr. Undergraduate/Graduate.  
Special topic course in Art and Design.  
**Prerequisites:** jr st & admits to Art and Design prog; or grad st; or cons instr.  
**Course Rules:** May be retaken w/chg in topic change to 6 cr max.  
**Last Taught:** Spring 2018, Spring 2017, UWinterIM 2017, Summer 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 405 Product Realization  
3 cr. Undergraduate/Graduate.  
This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process. 2.5 hrs lecture.  
**Prerequisites:** jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.  
**Course Rules:** Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Counts as repeat of Art 402/Ind Eng 590/MechEng 490 with same topic.  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 406 Community Arts II  
3 cr. Undergraduate/Graduate.  
Intermediate study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals.  
**Prerequisites:** Art 306(P); or grad st; or cons instr.  
**Last Taught:** Spring 2018, Spring 2017, Spring 2017, Fall 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 412 Advanced Digital Studio  
3 cr. Undergraduate/Graduate.  
An advanced, concept oriented studio course where students produce Digital Studio art.  
**Prerequisites:** jr st, admis to Art & Design prog or IAT prog, & Art 312(P); or grad st; or cons instr.  
**Last Taught:** Spring 2018, Spring 2016, Fall 2015, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 418 Advanced Electronics and Sculpture  
3 cr. Undergraduate/Graduate.  
Advanced art production using interactive systems such as sensors, microcontrollers, motors, lights for interactivity installations & performance.  
**Prerequisites:** jr st, admis to Art prog or IAT prog, & Art 318; or grad st; or cons instr. See schedule of classes for any additional prereqs.  
**Course Rules:** May be retaken/chg in topic to 9 cr max.  
**Last Taught:** Fall 2017, Fall 2016, Spring 2016, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 421 Design and Visual Communication II  
3 cr. Undergraduate.  
Intermediate level emphasizes a beginning professional synthesis of fundamentals of typography, symbol, image in comprehensive design projects.  
**Prerequisites:** grade of B- or better in Art 321(229)(P), 323(328)(P) & 3 cr min Graphic Design expanded studies (grade of C or better).  
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ART 422 Design Methodologies: Process, Communication & Theory  
3 cr. Undergraduate.  
Focus on creative process and communication; and entrepreneurial, professional and cross-disciplinary practices in design and related fields.  
**Prerequisites:** Art 323(P) & successful completion of or exemption from a QL-A course; or cons instr.  
**General Education Requirements:** QLB  
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
ART 423 Experimental Typography
3 cr. Undergraduate/Graduate.
Advanced understanding of typography, its use in innovative information systems, its historical context and function in various media including print, architectural applications, Web and multimedia.
Prerequisites: jr st & B- or better in ART 323(328)(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

ART 424 Topics in Web, Interaction and Screen Design:
3 cr. Undergraduate.
Exploration of concepts and technologies in web, interaction and screen design. Topic and additional prerequisites will be published in Schedule of Classes; students must meet additional prereqs.
Prerequisites: jr st; or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 426 Motion Graphics
3 cr. Undergraduate/Graduate.
Introduction to history and production of short-duration motion graphics (industry, Internet, titling, graphics, creative projects) using contemporary production tools (video editing, compositing, audio recording/sequencing).
Prerequisites: jr st & Art 118(P); or grad st; or cons instr.
Current Offerings: http://uwm.edu/schedule

ART 427 Advanced Design Workshop:
1-3 cr. Undergraduate/Graduate.
A short term, concept oriented workshop in graphic design.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken w/chg in topic 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 431 Special Topics in Fibers:
3 cr. Undergraduate/Graduate.
Advanced problem-solving working toward the development of cohesive body of work in non-loom construction.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 432 Woven Structure II
3 cr. Undergraduate/Graduate.
Continuation of ART 332. Further development of individual concepts in weaving leading to a cohesive body of work.
Prerequisites: jr st, & Art 332(232)(P); or cons instr; or grad st.
Last Taught: Spring 2018, Spring 2017, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ART 433 Digital Imaging for Fabric
3 cr. Undergraduate/Graduate.
Digital processes and screen-printing on textiles with an emphasis on individual expression.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Last Taught: Fall 2015, Fall 2012, Fall 2010, Spring 2008.
Current Offerings: http://uwm.edu/schedule

ART 434 Fibers III-Weaving
3 cr. Undergraduate/Graduate.
Individual research and execution of projects in various processes of weaving. Professional execution of work emphasized.
Prerequisites: jr st; Art 432(P).
Current Offerings: http://uwm.edu/schedule

ART 435 Mixed Materials: Concept/Object
3 cr. Undergraduate/Graduate.
Individual research and execution of projects in various processes of non-loom fiber construction. Professional execution of work emphasized.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Spring 2013.
Current Offerings: http://uwm.edu/schedule

ART 436 Cloth Construction: Surface to Structure
3 cr. Undergraduate/Graduate.
Individual research and execution of projects in various processes of fabric printing and construction.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.
Last Taught: Spring 2018, Fall 2014, Fall 2011, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ART 438 Fiber Workshop:
3 cr. Undergraduate/Graduate.
A special topic course in fibers.
Prerequisites: See semester Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Spring 2016, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ART 441 Advanced Drawing Strategies I
3 cr. Undergraduate/Graduate.
Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work with both assigned and independently-conceived problems.
Prerequisites: jr st & Admis to Art and Design prog; or grad st.
Current Offerings: http://uwm.edu/schedule

ART 442 Figure Drawing Explorations
3 cr. Undergraduate.
Focus on the human figure. Emphasis on personal interpretations in studio-based and outside assignments.
Prerequisites: jr st, admis to Art and Design prog, & Art 342(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ART 443 Painting Strategies
3 cr. Undergraduate.
Emphasis on painting concepts, problem solving, research, construction strategies and development of personal direction.
Prerequisites: jr st, admis to Art and Design prog & Art 343(P); or 243(P) & cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 444 Watercolor
3 cr. Undergraduate.
Continuation of Art 344. Greater emphasis on individual development and experimental use of the medium.
Prerequisites: Art 344(P).
Current Offerings: http://uwm.edu/schedule

ART 447 Reading Works of Art
3 cr. Undergraduate/Graduate.
Continuation of Art 347.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

ART 449 Painting And Drawing Workshop:
1-3 cr. Undergraduate/Graduate.
A short term, special topic course in painting and drawing. Additional prereqs may appear in the Schedule of Classes.
Prerequisites: jr st or writ cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 451 Special Topics in Photography:
3 cr. Undergraduate/Graduate.
Specific topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, Art 253(P), Art 350(P) & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P) or Art 358(P); or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 452 Contemporary Issues in Photography
3 cr. Undergraduate/Graduate.
Addresses critical issues, theory, and practices surrounding contemporary photography and how photographers have worked to challenge, expand, and reinvent the medium.
Prerequisites: jr st, admis to Photo prog, cumulative 2.67 GPA in photo curriculum, Art 253(P), B- or better in Art 350(P); or Photo minors with Art 350(P) or Art 358(P) or Art 357(P); or grad st; or cons instr.
Current Offerings: http://uwm.edu/schedule

ART 453 Sculpture Studio
3 cr. Undergraduate.
Introduction to sculpture with emphasis on open-ended materials, tools, and techniques including: clay, wood, metal, and more.
Prerequisites: jr st, admis to Art & Design prog & Art 261(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ART 454 Narrative Photography
3 cr. Undergraduate/Graduate.
Investigation of contemporary and historical narrative strategies that range from documentary to tableau and move from single images to sequencing.
Prerequisites: jr st, Art 253(P), Art 350(P) & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P), 358(P), or 357(P); or grad st; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ART 456 Advanced Digital Photography
3 cr. Undergraduate/Graduate.
Exploration of critical concepts through advanced digital color management, retouching, manipulation, compositing, image appropriation, and expanded media to include time-base media, emerging capture/output technologies and hybrid practices.
Prerequisites: jr st, Art 253(P) & Art 350(P) or Art 357(P); or Art 212(P) & Art 312(P); or Art 221(P) & Art 321(P), & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or Art 357(P); or grad st; or cons instr.
Current Offerings: http://uwm.edu/schedule

ART 458 Photographic Materials and Processes
3 cr. Undergraduate/Graduate.
Exploration of experimental methods and aesthetics of the photograph as object from image capture to print, including darkroom manipulation, historical processes, hybrid practice, and alternative presentation strategies. Prereq: jr st, Art 253(P) & 350(P) or 358(P); or Art 291(P) & 391(P) or 392(P) or 393(P) or 394(P); or Art 212(P) & 312(P); & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 350(P) or 358(P) or 357(P); or grad st;
Prerequisites:
Current Offerings: http://uwm.edu/schedule

ART 459 Advanced Photography Workshop:
1-3 cr. Undergraduate/Graduate.
Advanced special topic workshop course in photography.
Prerequisites: jr st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or gr st; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2015, Fall 2014, UWinteriM 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ART 461 Structural Fabrication/Assembled Objects
3 cr. Undergraduate.
Exploration of welding processes, wood-working techniques, and mixed media assemblage.
Prerequisites: jr st, admis to Art and Design prog, & Art 261(P).
Last Taught: Fall 2010, Fall 2009, Fall 2008, Spring 2008.
Current Offerings: http://uwm.edu/schedule

ART 463 Structural Fabrication/Assembled Objects
3 cr. Undergraduate.
Exploration of welding processes, wood-working techniques, and mixed media assemblage.
Prerequisites: jr st, admis to Art and Design prog, & Art 261(P).
Current Offerings: http://uwm.edu/schedule

ART 464 Contemporary Figure Sculpture
3 cr. Undergraduate.
Exploration and investigation of the human figure from live models. Includes study of anatomy and historical references.
Prerequisites: jr st, admis to Art and Design prog, & Art 261(P).
Current Offerings: http://uwm.edu/schedule
ART 468 Advanced Sculptural Practices:
3 cr. Undergraduate/Graduate.
Advanced level course in specialized sculpture processes & skills.
Prerequisites: jr st & Art 368(P); or grad st. See Schedule of Classes for additional prereq.
Course Rules: May be retaken w/chg in topic to 15 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 469 Sculpture Workshop:
1-3 cr. Undergraduate/Graduate.
A short term special topic workshop in sculpture. Specific topic and additional prerequisites may appear in the Timetable each semester.
Prerequisites: jr standing or writ cons instr.
Course Rules: May be retaken w/chg in topic to a 6 cr max.
Last Taught: Fall 2014, Fall 2013, UWinteriM 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ART 470 Metal Forming
3 cr. Undergraduate.
Development of technical competency in metal forming and angle raising through traditional and experimental processes. Four hours studio monitoring mandatory.
Prerequisites: admis to Art and Design prog & Art 271(P).
Last Taught: Spring 2016, Fall 2014, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ART 471 Color on Metal
3 cr. Undergraduate.
Exploration of surface enrichment through vitreous enamel on metal and other traditional and experimental coloration techniques. Four hours studio monitoring mandatory.
Prerequisites: admis to Art and Design prog & Art 271(P).
Current Offerings: http://uwm.edu/schedule

ART 472 Color on Metal
3 cr. Undergraduate.
Exploration of surface enrichment through vitreous enamel on metal and other traditional and experimental coloration techniques. Four hours studio monitoring mandatory.
Prerequisites: admis to Art and Design prog & Art 271(P).
Current Offerings: http://uwm.edu/schedule

ART 473 Special Topics in Jewelry and Metallsmithing:
3 cr. Undergraduate.
Specific topic and additional prerequisites will appear in Schedule of Classes each time the course is offered. Four hours studio monitoring mandatory.
Prerequisites: admis to Art and Design prog & Art 271(P).
Course Rules: May be retaken w/chg in topic to 12 cr max.
Last Taught: Spring 2018, Fall 2016, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ART 474 Portfolio Development in Jewelry and Metallsmithing
3 cr. Undergraduate/Graduate.
Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, visual documentation and portfolio presentation. Four hours studio monitoring mandatory.
Prerequisites: jr st & Admis to Art and Design prog; Art 371(P) or 372(P) or 378(P) or 470(P) or 472(P) or 473(P) or 478(P); or grad st & cons instr.
Course Rules: May be retaken to 12 cr max.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

ART 475 Advanced Printmaking
3 cr. Undergraduate/Graduate.
Advanced printmaking with an emphasis on specialized processes and techniques. Media/content focus to include array of relevant topics.
Prerequisites: jr st & Art 393(293)(P); or grad st; or cons instr.
Last Taught: Spring 2016, Spring 2015, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

ART 476 Advanced Sculptural Practices:
3 cr. Undergraduate/Graduate.
Advanced level course in specialized sculpture processes & skills.
Prerequisites: jr st & Art 368(P); or grad st. See Schedule of Classes for additional prereq.
Course Rules: May be retaken w/chg in topic to 15 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 478 Digital Fabrication and Craft
3 cr. Undergraduate/Graduate.
Survey of fabrication methods with an emphasis on computer numeric controlled fabrication & exploration into digital fabrication & craft. Four hours studio monitoring mandatory.
Prerequisites: Art 277(P) & 261; Art 277(P) & 271(P); Art 277(P) & 278; or grad st; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 479 Jewelry and Metallsmithing Workshop:
1-3 cr. Undergraduate/Graduate.
Special topics workshop in jewelry and metallsmithing.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 271(P); or grad st & cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr. max.
Last Taught: Summer 2017, Summer 2016, Summer 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ART 481 Ceramics Special Topics and Portfolio I
3 cr. Undergraduate/Graduate.
Advanced problem-solving working toward the development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.
Prerequisites: jr st, & Admis to Art and Design prog, & Art 281(P); or cons instr; or grad st & cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 482 Ceramics Special Topics and Portfolio II
3 cr. Undergraduate/Graduate.
Continuation of ART 481. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.
Prerequisites: jr st, & Art 481(P); or grad st & cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 483 Ceramics Special Topics and Portfolio III
3 cr. Undergraduate/Graduate.
Continuation of ART 482. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.
Prerequisites: jr st & Art 482(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ART 489 Ceramics Workshop:
1-3 cr. Undergraduate/Graduate.
A short-term special topic course in ceramics.
Prerequisites: jr st & writ cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ART 493 Advanced Digital Printmaking
3 cr. Undergraduate/Graduate.
An advanced studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics.
Prerequisites: jr st & Art 393(293)(P); or grad st; or cons instr.
Last Taught: Spring 2016, Spring 2015, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule
ART 495 Advanced Printmaking:
3 cr. Undergraduate/Graduate.
Develop conceptual base of work and expand range of print skills with emphasis on color printing and combination print processes.
Prerequisites: jr st & Art 392(393) or 393(293)(P) or 394(P) or 396(P) or 398(P); or grad st; or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 496 Sequence and Structure
3 cr. Undergraduate/Graduate.
Advanced studio course exploring the creation of sequential art and the development of visual narratives using experimental book structures as well as electronic media (web, multimedia).
Prerequisites: jr st & Art 291(P) or 295(P); or Art 221(228)(P); or grad st & cons instr.
Current Offerings: http://uwm.edu/schedule

ART 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Studio and special problems designed to provide relevant course work for a study abroad program in the visual arts.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 499 Advanced Printmaking Workshop:
3 cr. Undergraduate/Graduate.
Special topic course in Print and Narrative Forms.
Prerequisites: jr st; or grad st; or cons instr. Add'l prereqs may appear in Schedule of Classes each time course is offered.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Summer 2012, Summer 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ART 502 Undergraduate Classroom Assistantship in Art and Design
3 cr. Undergraduate.
Student classroom experience as an assistant to the course instructor in a closely-monitored mentoring situation.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 505 BA Project
1 cr. Undergraduate.
BA students collect, organize, synthesize & present capstone project in public event.
Prerequisites: sr st, Art 604(C).
Course Rules: Credit/No Credit only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 507 Undergraduate Research Assistantship in Art and Design
1-3 cr. Undergraduate.
An opportunity for juniors and seniors to work collaboratively with an Art and Design faculty member on a specific and sustained research project.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 509 Art & Design Seminar:
3 cr. Undergraduate/Graduate.
Topics and critical issues in the modern and/or contemporary field of art. Student research and written/oral reports required.
Prerequisites: jr st; & completion of Oral and Written Communication (OWC) Competency Part A GER, or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: OWC
Current Offerings: http://uwm.edu/schedule

ART 522 Topics in Advanced Illustration:
3 cr. Undergraduate.
Advanced course exploring contemporary illustration: technologies for its creation, dissemination and viewing, its relationship to design and fine art practice.
Prerequisites: jr st & Art 322(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 524 Professional Practice in Design:
3-6 cr. Undergraduate/Graduate.
Preparation for the design profession through research, writing and portfolio development. Graduate level requires additional research.
Prerequisites: jr st; & Art 323(C); or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 526 Research in Universal Design and Fabrication
3 cr. Undergraduate/Graduate.
Exploration of topics focused on Human Factors in Universal Design.
Prerequisites: jr st; Art 221(228)(P), or 378(P), or 478(P); or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Counts as repeat of Art 427 with similar topic.
Current Offerings: http://uwm.edu/schedule

ART 528 Print Production and Presentation Techniques
3 cr. Undergraduate.
Introduction to aspects of design production including scheduling, budgeting, pre-press, paper selection, printing, digital files, vendor communication; digital and hand-assembled mock-ups will be produced.
Prerequisites: Art 221(228)(P); or cons instr.
Current Offerings: http://uwm.edu/schedule
ART 529 Design and Visual Communication III
3 cr. Undergraduate/Graduate.
Capstone course emphasizes a complete and comprehensive synthesis of design and visual communication through comprehensive studio projects developed for a graduate portfolio.
Prerequisites: jr st, & grade of B- or better in Art 421(329)(P) & 6 cr (final 3 may be taken conc) Design and Visual Communication Expanded Studies (grade of C or better); or grad st & cons instr.
Current Offerings: http://uwm.edu/schedule

ART 531 Senior Project in Fibers
3 cr. Undergraduate.
Further development of fiber investigations leading to a final project for BFA exhibition.
Prerequisites: sr st & cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 539 Fibers-Independent Study
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study for the advanced student in fibers.
Prerequisites: jr st; Admis to Art and Design prog; or grad st, & cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 541 Advanced Drawing Strategies II
3 cr. Undergraduate/Graduate.
Continuation of Art 441. Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work on assigned and independently-conceived problems.
Prerequisites: jr st & Art 441(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ART 542 Advanced Figure Drawing Explorations
3 cr. Undergraduate/Graduate.
Continuation of Art 442. Advanced focus on the human figure. Emphasis on personal interpretations in studio-based and outside assignments.
Prerequisites: jr st; admis to Art and Design prog & Art 442(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ART 543 Painting Studio
3 cr. Undergraduate/Graduate.
Advanced investigation of painting focused upon personal image exploration through independently conceived problems.
Prerequisites: jr st & Admis to Art and Design prog; Art 441(P), & 443(P); or grad st.
Course Rules: May be retaken to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 552 Studio Practice and Research in Photography
3 cr. Undergraduate/Graduate.
Research and development of a body of photographic work.
Prerequisites: sr st, admis to Photo prog, cumulative 2.67 GPA in photo curriculum, B- or better in Art 452 (P), & two of the following: 451 (P), 454(P), 456(P), 458(P); or grad st; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 553 Senior Project in Photography
3 cr. Undergraduate.
Further development of studio investigations leading to a final project for BFA Exhibition.
Prerequisites: sr st, grade of B- or better in Art 552(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 561 Conceptual Process, Sculptural Presence
3 cr. Undergraduate/Graduate.
Development of advanced concepts in contemporary sculpture.
Prerequisites: jr st; Admis to Art and Design prog. & Art 261(P), & 363(P); or 365(P); or 461(P); or 464(P); or grad st.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 562 Environmental Sculpture and Installation
3 cr. Undergraduate/Graduate.
Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.
Prerequisites: jr st & Admis to Art and Design prog; Art 363(P) & 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 567 Senior Project in Sculpture
3 cr. Undergraduate.
Further development of independent sculpture investigations leading to a final project for BFA Exhibition.
Prerequisites: sr st & Art 561(P); or 562(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 575 Senior Project in Jewelry and Metalsmithing
3 cr. Undergraduate.
Research and create a cohesive body of work based on technical, aesthetic and conceptual explorations for BFA Exhibition.
Prerequisites: sr st & Art 371(P), 474 (P); & four of the following: 372(C), 378 (C), 470(C), 472(C), 473(C), 478(C); or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 578 Research in Digital Fabrication and Craft:
3 cr. Undergraduate/Graduate.
Interdisciplinary research into digital fabrication, rapid prototyping and design.
Prerequisites: Art 478(P); or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 583 Senior Project in Ceramics
3 cr. Undergraduate.
Further development of independent investigations in ceramics leading to a final project for BFA Exhibition.
Prerequisites: sr st & Art 482(P); or cons instr.
Current Offerings: http://uwm.edu/schedule
ART 584 Experimental Processes in Woodfiring II
3 cr. Undergraduate/Graduate.
Advanced research and further development of personal aesthetic in woodfiring. Leadership in supervising the firing process required.
Prerequisites: jr st, & Art 384(P); or grad st & cons instr.
Current Offerings: http://uwm.edu/schedule

ART 591 Portfolio in Print and Narrative Forms
3 cr. Undergraduate/Graduate.
Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, professional writing samples, visual documentation and portfolio presentation.
Prerequisites: jr st; gr st; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 595 Colloquium: Print and Narrative Forms
3 cr. Undergraduate/Graduate.
Imaging and hybrid forms in contemporary photographic, book arts, narrative forms and print work.
Prerequisites: jr st; or grad st; or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ART 597 Senior Project in Print and Narrative Forms
3 cr. Undergraduate.
Further development of studio investigations leading to a final project for BFA Exhibition.
Prerequisites: sr st & cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ART 603 Advanced Studio Practice
1-3 cr. Undergraduate/Graduate.
A special course open only to seniors and graduate students with written cons instr.
Prerequisites: sr st; writ cons instr.
Course Rules: May be retaken to max of 3 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 604 Professional Practices
3 cr. Undergraduate.
Preparation for graduating seniors with skills needed for a career in the competitive field of art: resumes, grants, budgets, taxes.
Prerequisites: sr st; & successful completion of, or exemption from, a QLB A course; or cons instr.
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 605 BFA Exhibition
1 cr. Undergraduate.
Independent supervised preparation and exhibition in Art & Design to fulfill BFA degree requirements.
Prerequisites: sr st, enrol conc in an advanced studio course; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 606 BFA Exhibition in Design
1 cr. Undergraduate.
Supervised preparation and exhibition in conjunction with Art 529 Graphic Design III to fulfill degree requirements.
Prerequisites: Art 421(P) & 529(C).
Current Offerings: http://uwm.edu/schedule

ART 608 Art and Design Internship
3-6 cr. Undergraduate/Graduate.
Provides structured opportunities for art students to earn credit for skills and professional experience gained working in galleries, museums, studios, arts organizations or art businesses.
Prerequisites: jr st & admis to Art and Design prog; or grad st & cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ART 609 Independent Reading and Research
1-3 cr. Undergraduate/Graduate.
Prerequisites: sr st & writ cons instr.
Course Rules: May be retaken/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 612 Senior Project in Digital Studio Practice
3 cr. Undergraduate.
Further development of independent investigation in Digital Media, leading to a final project for BFA Exhibition.
Prerequisites: sr st & cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 621 The Design Group
3 cr. Undergraduate.
Development of advanced understanding of visual, theoretical, historical, professional and technical aspects of design practice through work with client(s).
Prerequisites: cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 627 Design Seminar:
3 cr. Undergraduate/Graduate.
Role and responsibility of professional designer investigated. Topics may include contemporary trends and issues, design education, ethics, social activism, career opportunities.
Prerequisites: jr st; or grad st; or cons instr.
Last Taught: Fall 2017, Fall 2012, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ART 629 Graduate Graphic Design I
3 cr. Undergraduate/Graduate.
Individual research in graphic design.
Prerequisites: Art 529(P) or cons instr.
Current Offerings: http://uwm.edu/schedule
ART 645 Painting and Drawing Critique
3 cr. Undergraduate/Graduate.
An advanced critique format course to investigate painting and drawing mediums. Students will develop and discuss conceptual, technical, and collective dialogue strategies.
Prerequisites: sr st or writ cons instr.
Current Offerings: http://uwm.edu/schedule

ART 721 Design Thinking & Making
3 cr. Graduate.
Focus on design process: identify/define problems, communication modes, nature of representation, dimensions of context, solution assessment. Develop storytelling skills. Rapid prototyping, qualitative/quantitative research, collaboration, co-design.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ART 732 Graduate Studio
3 cr. Graduate.
Ongoing critique of individual studio research in students’ chosen medium(s). Emphasis on developing and maintaining interdisciplinary dialogue. Studio research, individual, and group critiques required.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: http://uwm.edu/schedule

ART 903 Seminar in Art - Reading and Research
3 cr. Graduate.
Experience in the systematic development and production of written and visual documentation or research.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

ART 904 Seminar in Art - Unique Topics:
3 cr. Graduate.
Examination of unique topics and issues of the modern and/or contemporary field of art. Student scholarly research and written/oral reports required.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ART 905 Seminar in Art - Critique Colloquium
3 cr. Graduate.
Studio critique/discussion to develop analytical perceptual skills in the understanding/comprehension of works of art. Student research, presentation and written/oral reports required.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ART 906 Graduate Workshop:
3 cr. Graduate.
A special topic workshop for graduate students including reading, research, writing and studio practice.
Prerequisites: grad st.
Course Rules: Retakable w/ chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ART 940 Seminar in Art - Colloquium
3 cr. Graduate.
Presentations and discussions centering on contemporary concerns in art. Student research and oral reports.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule
ART 908 Advanced Research-General
1-4 cr. Graduate.
Independent studio work and research in areas not covered by specific courses.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 909 Independent Reading and Research
1-4 cr. Graduate.
Independent reading and research relative to scholarly issues in art.
Prerequisites: grad st.
Course Rules: Retakable to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 918 Advanced Research-InterMedia
1-4 cr. Graduate.
Independent work and research in combined media.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: http://uwm.edu/schedule

ART 929 Advanced Research-Design & Digital Media
1-4 cr. Graduate.
Individual work and research in design and digital media.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 930 Advanced Research-Fibers
1-4 cr. Graduate.
Independent work and research in fibers.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: http://uwm.edu/schedule

ART 943 Advanced Research-Painting
1-4 cr. Graduate.
Independent work and research in painting/drawing.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: http://uwm.edu/schedule

ART 952 Advanced Research-Photography
1-4 cr. Graduate.
Independent work and research in photography.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART 961 Advanced Research - Sculpture
1-4 cr. Graduate.
Independent work and research in sculpture.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ART 973 Advanced Research-Jewelry and Metalsmithing
1-4 cr. Graduate.
Independent work and research in jewelry and metalsmithing.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Current Offerings: http://uwm.edu/schedule

ART 989 Advanced Research-Ceramics
1-4 cr. Graduate.
Independent work and research in ceramics.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Fall 2017, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

ART 994 Advanced Research-Printmaking
1-4 cr. Graduate.
Independent work and research in printmaking, bookmaking, and experimental narrative.
Prerequisites: grad st.
Course Rules: Retakable to 21 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Art Education Courses

ART ED 130 Multicultural Art and Visual Learning in Elementary Education
3 cr. Undergraduate.
A study of art and its relationship to human development. Designed for teachers interested in providing developmentally appropriate art experiences for children from pre-school through 6th grade. Lectures, discussions, readings, and lab activities will emphasize the use of art materials, equipment, and visual aids.
Prerequisites: none.
Course Rules: Not open for degree cr to Art & Art Ed majors. Not open for degree cr to Art & Art Ed majors.
General Education Requirements: A, CD
Current Offerings: http://uwm.edu/schedule

ART ED 227 Introduction to Art Education
3 cr. Undergraduate.
Early introduction to the field of art education, afford students opportunity to observe in schools, and provide Art Ed faculty opportunity to connect with students earlier in program.
Prerequisites: soph st; admis to Art and Design prog.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ART ED 228 Learning Processes in Art Education
3 cr. Undergraduate.
Introduction to theories of visual learning, art criticism centered on contemporary artists, academic language for teaching in K-12 settings. Exploration of portable technologies in teaching-learning.
Prerequisites: soph st; admis to Art and Design prog.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ART ED 327 Art Education Theory and Practice: Elementary
6 cr. Undergraduate.
Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of observations in elementary school required.
Prerequisites: jr st, admis to Art Ed prog., & completion of Oral and Written Communication (OWC) Competency Part A GER, & cons instr.
Course Rules: Counts as repeat of Art Ed 225, 250, & 375.
General Education Requirements: OWC
Last Taught: Fall 2017, Summer 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ART ED 328 Art Education Theory and Practice: Secondary
6 cr. Undergraduate.
Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of observations in secondary school required.
Prerequisites: jr st, admis to Art Ed prog., Art Ed 327(P), & successful completion of or exemption from a QL-A course & cons instr.
Course Rules: Counts as repeat of Art Ed 325 & 350.
General Education Requirements: QLB
Current Offerings: http://uwm.edu/schedule

ART ED 425 Student Teaching in Art I - Elementary Levels
5 cr. Undergraduate.
Pre-professional teaching internship in preschool/kindergarten through sixth grade.
Prerequisites: sr st & Art Ed majors or Art Cert students only, dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 426(C), & cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART ED 426 Student Teaching in Art II - Secondary Levels
5 cr. Undergraduate.
Pre-professional teaching internship in grades seven through twelve.
Prerequisites: sr st & Art Ed majors or Art Cert students only, dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 425(C), & cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART ED 489 Art Education Workshop:
1-3 cr. Undergraduate/Graduate.
A short-term, concept-oriented workshop in the visual and tactile arts with special focus on current issues of particular interest to the professional art educator.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

ART ED 699 Independent Reading and Research
1-4 cr. Undergraduate.
Prerequisites: sr st & writ cons instr.
Course Rules: May be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ART ED 801 Seminar in Urban Education and the Visual Arts
3 cr. Graduate.
Seminar on issues related to urban schools. Emphasis on the art in urban education and consequent demands made upon curriculum.
Prerequisites: grad st; Art Ed 750 or cons instr.
Current Offerings: http://uwm.edu/schedule

ART ED 810 Curricular Designs for Art Instruction
3 cr. Graduate.
Curricular rationales and models will be studied and tested. Emphasis on use of art history and criticism with studio-based curricula.
Prerequisites: grad st; Art Ed 775 or cons instr.
Last Taught: Fall 2016, Spring 2011, Fall 1998, Fall 1996.
Current Offerings: http://uwm.edu/schedule

ART ED 830 Teaching Art With Works of Art
3 cr. Graduate.
Study of ways historic and contemporary masterworks can enhance art curricula. Use of art museums will be emphasized and visual resources examined.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

ART ED 850 Supervision and Administration of Art Programs
3 cr. Graduate.
Study of supervisory and administrative practices related to art programs. Staff development techniques, management procedures, evaluation processes, community relations, and grant writing emphasized.
Prerequisites: grad st; Art Ed 750(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ART ED 860 Teaching Art in Higher Education
3 cr. Graduate.
Study of curricular models, administrative structures and policies, and teaching methods used by arts administrators, educators, and master artists in higher education.
Prerequisites: grad st; Art Ed 725(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ART ED 900 Advanced Independent Problems in Art Education
3 cr. Graduate.
Applied research in art education with emphasis on student generated problems in studio practices, Art History, criticism, Anthropology, Sociology, and aesthetics, or Psychology.
Prerequisites: grad st; cons grad advisor & instr.
Course Rules: May be repeated to max of 6 cr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ART ED 910 Seminar in Art Education:
3 cr. Graduate.
Each seminar will focus on a special topic relevant to art education. Topic related lectures, readings, and discussions will conclude in a required research report.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Fall 2016, Fall 2015, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ART ED 920 Research Methods in Art Education
3 cr. Graduate.
The study of research models and methods used in the field. Student will develop a research proposal and design a research strategy. Participation in a field study required.
Prerequisites: grad st; cons instr. Completion of 24 grad cr in degree program.
Current Offerings: http://uwm.edu/schedule

ART ED 990 Master's Thesis
1-3 cr. Graduate.
Thesis research and advisement for m.s. in art education students who have completed course requirements for the degree.
Prerequisites: grad st; completion of 30 grad cr; cons grad advisor.
Course Rules: May be repeated to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

ART ED 998 Doctoral Dissertation
1-3 cr. Graduate.
Doctoral dissertation research and advisement for candidates for Ph.D. in urban education with a specialty in art education.
Prerequisites: doctoral candidacy; approval of doctoral advisor.
Course Rules: May be repeated to max of 12 cr.
Current Offerings: http://uwm.edu/schedule

ART ED 999 Independent Reading and Research
1-4 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

Faculty

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<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>John Balsley</td>
<td>Professor</td>
<td>MFA</td>
<td>Northern Illinois University, DeKalb</td>
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<tr>
<td>Kimberly Beckmann</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>Cranbrook Academy of Art</td>
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<td>Adream Blair</td>
<td>Associate Professor</td>
<td>MA, MGD</td>
<td>North Carolina State University</td>
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<td>Marna Brauner</td>
<td>Professor</td>
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<td>California College of Arts and Crafts</td>
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<td>Robert Burkert</td>
<td>Professor</td>
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<td>University of Wisconsin- Madison</td>
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<td>Kyoung Ae Cho</td>
<td>Professor, Chair</td>
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<td>Allison Cooke</td>
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<td>Kimberly Cosier</td>
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<td>PhD</td>
<td>Indiana University</td>
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<td>Christopher Davis-Benavides</td>
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<td>MA</td>
<td>National School of Plastic Arts, UNAM</td>
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<tr>
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<td>Kansas State University</td>
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<td>MEd</td>
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<td>Yevgeniya Kaganovich</td>
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<td>MFA</td>
<td>State University of New York at New Paltz</td>
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<td>Kay Knight</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>Washington University, St. Louis</td>
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<td>Charles Kraus</td>
<td>Professor</td>
<td>MFA</td>
<td>Southern Illinois University, Carbondale</td>
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<td>Frank G. Lutz</td>
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<td>MFA</td>
<td>University of Wisconsin- Milwaukee</td>
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<tr>
<td>Jessica Meuninck-Ganger</td>
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<td>MFA</td>
<td>Minneapolis College of Art and Design</td>
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<td>Lisa Moline</td>
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<td>William Nichols</td>
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<tr>
<td>Narendra Patel</td>
<td>Professor</td>
<td>MFA</td>
<td>Cranbrook Academy of Art</td>
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</table>
Art and Design, Minor: Community Arts

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses. Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor, the Photography Minor, and the Community Arts Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

Requirements

A minor in Art & Design consists of a minimum of 18 art credits. Nine of the final 12 credits must be taken in residence at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following tracks:

### 2D Track:

- ART 108 | 2D Concepts |

### 3D Track:

- ART 109 | 3D Concepts |

### Digital Track:

- ART 118 | Digital Arts: Culture, Theory, Practice |

### 200-level Intro

Select 3 credits from the following tracks: 2

- ART 243 | Introduction to Painting |

1. Note: If Community Arts minors have previously taken ART 150 in another department, they may substitute another Art & Design course for which they have the prerequisites.

2. 200-level courses are grouped according to track, but students are free to take what interests them as long as they meet the prerequisites.

Total Credits: 18

Location: Theatre 120

Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)

Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.
Art and Design, Minor: Design

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses. Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor, the Photography Minor, and the Community Arts Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

Requirements

A minor in Art & Design consists of a minimum of 18 art credits. Nine of the final 12 credits must be taken in residence at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>or ART 106</td>
<td>Art Survey</td>
<td></td>
</tr>
<tr>
<td>Required 200-level Intro</td>
<td></td>
<td></td>
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<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
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<tr>
<td>300-level and Above</td>
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<tr>
<td>Select 3 credits ¹</td>
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<td>3</td>
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<tr>
<td>Total Credits</td>
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<td>18</td>
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</table>

¹ Select 3 credits of 300-level or above electives in Design and Visual Communication in consultation with Art & Design Undergraduate Advisor and Area Head for Design and Visual Communication. Design minor students are not eligible to take Design and Visual Communication Required Core Courses.

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Art and Design, Minor: Photography

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses. Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor, the Photography Minor, and the Community Arts Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

Requirements

A minor in Art & Design consists of a minimum of 18 art credits. Nine of the final 12 credits must be taken in residence at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>ART 100</td>
<td>American Art and Culture</td>
<td>3</td>
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<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td></td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td></td>
</tr>
<tr>
<td>ART 150</td>
<td>Multicultural America</td>
<td></td>
</tr>
<tr>
<td>ART 152</td>
<td>Photography Survey</td>
<td></td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>or ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td></td>
</tr>
<tr>
<td>Required 200-level Intro</td>
<td></td>
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<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td>3</td>
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<td>300-level and Above</td>
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<tr>
<td>Select three of the following: ¹</td>
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<tr>
<td>ART 350</td>
<td>Visualizing Ideas in Photography</td>
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<td>ART 357</td>
<td>Studio Lighting &amp; Digital Imaging</td>
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<td>ART 358</td>
<td>Medium and Large Format Photography (subtitle)</td>
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<tr>
<td>ART 451</td>
<td>Special Topics in Photography</td>
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<td>ART 452</td>
<td>Contemporary Issues in Photography</td>
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<tr>
<td>ART 454</td>
<td>Narrative Photography</td>
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</tr>
<tr>
<td>ART 456</td>
<td>Advanced Digital Photography</td>
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<tr>
<td>ART 458</td>
<td>Photographic Materials and Processes</td>
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<tr>
<td>Total Credits</td>
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</tbody>
</table>

¹ Select 9 credits of 300-level or above electives in Photography and Imaging from the list, in consultation with Art & Design Undergraduate Advisor and Area Head for Photography and Imaging. Students must be aware of the prerequisites for the 300+ level courses they wish to take.

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

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campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Art and Design, Minor: Studio**

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses. Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor, the Photography Minor, and the Community Arts Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

**Requirements**

A minor in Art & Design consists of a minimum of 18 art credits. Nine of the final 12 credits must be taken in residence at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

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<tr>
<td><strong>Part I</strong></td>
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<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
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<td><strong>Part II</strong></td>
<td>Select one of the following:</td>
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<tr>
<td>ART 106</td>
<td>Art Survey</td>
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<td>ART 100</td>
<td>American Art and Culture</td>
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<tr>
<td>ART 124</td>
<td>Design Survey</td>
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</tr>
<tr>
<td>ART 105</td>
<td>Art &amp; Design Lecture Series</td>
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</table>

**Tracks**

Select one of the following tracks:

2D Track:
- ART 108  2D Concepts

3D Track:
- ART 109  3D Concepts

Digital Track:
- ART 118  Digital Arts: Culture, Theory, Practice

**200-level Intro**

Select 3-6 credits from the following tracks:  ^1  3-6

**2D Track:**
- ART 243  Introduction to Painting
- ART 253  Introduction to Photography
- ART 291  Introduction to Print and Narrative Forms

**3D Track:**
- ART 231  Introduction to Fibers
- ART 261  Introduction to Sculpture
- ART 271  Introduction to Jewelry and Metalsmithing
- ART 278  Introduction to Industrial Craft
- ART 281  Introduction to Ceramics

**Digital Track:**
- ART 212  Introduction to Digital Studio: A/V Strategies
- ART 221  Introduction to Design
- ART 277  Design for Digital Fabrication

**300-level and Above**

Select 3-6 credits  ^2  3-6

Total Credits  15-21

1 200-level courses are grouped according to track, but students are free to take what interests them as long as they meet the prerequisites.

2 Students in all three Studio tracks select 3-6 credits of 300-level and above Art courses in consultation with the Art & Design Undergraduate Advisor and the Concentration Area Head (Ceramics, Digital Studio Practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography, Print and Narrative Forms, Sculpture).

**Location:** Theatre 120

**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)

**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Art Education, BFA**

This undergraduate degree prepares students to teach art both in schools and in the community. Once students are admitted to the Art & Design program, they can apply to the Art Education program through ART ED 227 (see Advance to Major (p. 112)). In addition to satisfying the core curriculum, art education students also must take required art history and critical thinking courses, and three education courses. They are required to take studio courses from both 2D and 3D disciplines, and to focus their choices of studio electives to develop an emphasis in an area. In addition to top-notch studio preparation in a wide range of media, our students focus on urban issues and art education for social justice. Theory is integrated into practical early field and student teaching experiences. Throughout the program, assessment is aligned with the requirements for licensure under “PI-34,” the state law governing certification in Wisconsin. Students who demonstrate mastery of the knowledge, skills, and dispositions of professional educators during student teaching are recommended to the Department of Public Instruction in the State of Wisconsin for a PK-12 teaching license.

**Requirements**

The Art Education program requires a total of 130 credits for graduation distributed as follows:
### University Core

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<tr>
<th>Code</th>
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<tr>
<td>University Core (p. 111)</td>
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<td>45</td>
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<tr>
<td>Art &amp; Design Core (p. 111)</td>
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<td>57</td>
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<tr>
<td>Major Requirements (p. 111)</td>
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<td><strong>Total Credits</strong></td>
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#### General Education Requirements

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<td>Math Parts A &amp; B</td>
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<td>Foreign Language</td>
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#### Distribution Requirements

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<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
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<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
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#### Social Science

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#### Natural Science (1 course with lab)

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#### Cultural Diversity

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#### Electives

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<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
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<td>CURRINS 343 or CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
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<td>Select one of the following:</td>
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<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
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<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
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<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
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**Total Credits** 57

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### Art & Design Core

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<tr>
<th>Code</th>
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<td>ART 101</td>
<td>Drawing I</td>
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<tr>
<td>ART 106</td>
<td>Art Survey</td>
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</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
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<td>ART 109</td>
<td>3D Concepts</td>
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#### Studio Courses

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<tr>
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<td>Drawing II</td>
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<td>ART 342</td>
<td>Introduction to Figure Drawing</td>
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<td>Select 21 credits of the following:</td>
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<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
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<td>ART 221</td>
<td>Introduction to Design</td>
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<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
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<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td></td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td></td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td></td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
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<tr>
<td>Studio Electives (choose 12 credits)</td>
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#### Critical Thinking

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<td>Issues in Contemporary Art:</td>
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<td>or ART 509</td>
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**Total Credits** 12

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### Major Requirements

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ART ED 227</td>
<td>Introduction to Art Education</td>
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<td>ART ED 228</td>
<td>Learning Processes in Art Education</td>
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</tr>
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<td>ART ED 327</td>
<td>Art Education Theory and Practice: Elementary</td>
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<td>ART ED 328</td>
<td>Art Education Theory and Practice: Secondary</td>
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<td>ART ED 425</td>
<td>Student Teaching in Art I - Elementary Levels</td>
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<tr>
<td>ART ED 426</td>
<td>Student Teaching in Art II - Secondary Levels</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Credits** 28

---

### Year 1

**Fall**

(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
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</tbody>
</table>

**Credits** 15
### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- 200-level studio in Art 1
- University Core 1
- University Core 2

---

### Fall

**Year 4**

- University Core
- Advanced Art History choice

**Year 3**

- University Core
- ARTHIST 101 (Selected concentration for students)
- 200-level studio in Art
- ART ED 227 Introduction to Art Education
- 200-level studio in Art
- 200-level studio in Art
- ARTHIST 101 Ancient and Medieval Art and Architecture 2
- University Core 1
- University Core 2

---

### Year 2

**Fall**

- Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).
- Admission to the Pre-Art Ed Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

Select one of the following:

- 200-level studio in Art
- Introduction to Art Education
- ART ED 227 Learning Processes in Art Education
- ART ED 228 Introduction to Art Education
- 200-level studio in Art
- 200-level studio in Art
- ARTHIST 102 Renaissance to Modern Art and Architecture 2
- University Core 1
- University Core 2

---

### Spring

**Year 3**

- ART ED 327 Art Education Theory and Practice: Elementary 6
- Select one of the following:
  - ART ED 228 Learning Processes in Art Education
  - 200-level studio in Art
- ART 342 Introduction to Figure Drawing 3
- Advanced Art History choice 2
- University Core 1

---

### Year 4

**Fall**

- Art Studio Elective
- Art Studio Elective
- Art Studio Elective
- Art Studio Elective
- University Core 1
- University Core 2

---

### Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty:

1. **Art & Design Portfolio form.** Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ (http://uwm.edu/arts/apply.).)
2. **Portfolio of artworks.** Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.
3. **Statement of Intent.** Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming new freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/art-and-design/ (http://uwm.edu/arts/art-and-design).

### Appeal Process

An appeal process is established for students who do not meet the department’s criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.
Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher.

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Art Education Certification Requirements

Following admission to the Art Education Program, and successful completion of the specified Art Education course of studies, a student seeking recommendation for teacher certification must successfully fulfill the following requirements:

1. fulfill all degree requirements;
2. fulfill the field experience requirement;
3. maintain a 2.75 cumulative GPA or higher while being in the program;
4. maintain a 3.0 or higher in content area courses (Art & Art History) or pass the Praxis II Art Content Exam;
5. successfully complete student teaching; and
6. demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of art education through the use of a Teaching Portfolio (see description below):
   The Art Education Area and the Wisconsin Department of Public Instruction require that students compile a teaching portfolio that demonstrates teaching proficiency. The required reflections, artifacts, statements, and assessment composing this portfolio will be compiled mostly as a part of their major two art education methods classes (ART ED 327 and ART ED 328). Fewer documents will be produced during their student teaching capstone classes (ART ED 425 and ART ED 426). Some of the documents that this portfolio includes are: copy of current resume, teaching philosophy, reflections on the Ten Wisconsin Teaching Standards, artifacts supporting the reflections showing your work as a teacher and your students’ work, lesson plans written and taught in field experiences, field experience assessments, and clinical assessments during student teaching.
7. Teacher Performance Assessment, EdTPA (see explanation below):

This is a performance-based test in which student teachers plan, instruct, and assess a visual arts lesson plan for K-12 following the requirements outlined in the EdTPA Handbook. Among these requirements student teachers must show strong curriculum based on four types of objectives, the use of academic language derived from the research of art content and contexts, and cohesive sequencing of art appreciation, artmaking, and art critique. Along with all this, students should demonstrate a theoretical use of visual art learning theory, elaborated skills in the documentation of in-progress and finalized student work, and an ability to reflect on their own teaching, as a way to inform the following steps in their instructional sequence.

Honors in the Major

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.
Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Art Education, MS

The Master of Science (MS) in Art Education is a 30-credit program with advanced work in art education and the studio arts. The MS with a major in art education offers two separate program options. Both options require applicants to have completed a bachelor's degree in the visual arts or a related field, and to be admitted to the University of Wisconsin-Milwaukee Graduate School. Additional background requirements depend on the option the applicant intends to pursue, as follows:

- Pre K-12 Art Education Option is designed to enhance the expertise of practicing teachers. The program combines theory, practice, and research in an effort to develop leaders as teachers-artists-researchers in the field.
- Community-Based Art Education Option is designed for those who desire careers as educators in community art programs, including museums. The program looks at theories and practices that have impacted community-based art education.

The Department’s facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.

The Peck School of the Arts’ Kenilworth Square East (KSE) Gallery provides a year-round schedule of exhibitions, with galleries that are housed in the Kenilworth Square East building, a research facility approximately one mile from campus. The Department of Art and Design offers a schedule of workshops and special lectures each year. In addition, graduate student studios are located in the Kenilworth Square East building.

Frederick R. Layton Fellowships are awarded each year to incoming and returning students. Application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/. Additional background requirements depend on the option the applicant intends to pursue, as follows:

- Pre K-12 Art Education Option is designed to enhance the expertise of practicing teachers. The program combines theory, practice, and research in an effort to develop leaders as teachers-artists-researchers in the field.
- Community-Based Art Education Option is designed for those who desire careers as educators in community art programs, including museums. The program looks at theories and practices that have impacted community-based art education.

The Peck School of the Arts’ Kenilworth Square East (KSE) Gallery provides a year-round schedule of exhibitions, with galleries that are housed in the Kenilworth Square East building, a research facility approximately one mile from campus. The Department of Art and Design offers a schedule of workshops and special lectures each year. In addition, graduate student studios are located in the Kenilworth Square East building.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements and have an undergraduate degree in art education, art history, studio arts, or a related field to be considered for admission to the program.

For Fall admission to the MS graduate programs in Art Education, the Graduate School recommends completing the online application one year in advance of intended enrollment (check http://uwm.edu/arts/art-and-design/graduate/ for more specific information) with portfolios and letters of recommendation uploaded to the Panthera Graduate Admission Application (https://graduateschool-apply.uwm.edu) page by February 1.

If applying for university fellowships, the application is due by December 10. Applications are accepted for Fall admission only.

The following materials are required and must be submitted with application:

1. An example of writing skills—appropriate examples include: a paper presented at a professional meeting, an art curriculum guide, a research paper, or a published article.
2. A digital portfolio of applicant's original work (minimum 10, maximum 20 images) and, if an experienced teacher, the work of one's students (minimum 10, maximum 20 images). Explanatory or descriptive annotations must accompany images.
3. Three (3) letters of recommendation that provide insight into your background as artist and educator.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. Upon admission to the program, the student is expected to satisfy deficiency requirements within three enrolled semesters.

Credits and Courses

The minimum requirement for the MS in Art Education degree is 30 graduate credits, 6 credits of which must be in foundations in art education, 9 credits in current topics and thematically related studio workshops, and 6 credits in thesis development. The student, in consultation with the major professor, is responsible for choosing 9 additional credits (minimum) in a chosen program of study in art education with a specific focus on Pre K-12 or community environments. Please refer to Master of Science in Art Education Handbook for further information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART ED 920</td>
<td>Research Methods in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 830</td>
<td>Teaching Art With Works of Art</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 910</td>
<td>Seminar in Art Education</td>
<td>3</td>
</tr>
</tbody>
</table>
A thesis to complete their degree. Two thesis options are available: a
Thesis department approval. Upon admission, an applicant may be permitted to transfer a maximum
of Graduate Studies in Art and Design for advice in selecting a new major
credentials that further a student's research agenda and must be chosen
university. Members from outside the university community must have
supporting the major area of concentration, for a minimum of three
member from art education, and one additional faculty member,
arrangements for a graduate faculty member in the Art Education Area to
immediately upon admission, the graduate student must contact the
Coordinator of Graduate Programs in Art and Design for initial advising
and aid in selection of a major professor from the faculty of the Art
Education area.
Upon completion of 9 graduate credits, each student must make
arrangements for a graduate faculty member in the Art Education Area to
serve as the major professor and must notify the Department of Art and
Design Office of Graduate Studies of that professor's willingness to serve
in such a capacity.
Immediately thereafter, each student, in consultation with the major
professor, must organize a thesis committee. The committee should
consist of the major professor from art education, another faculty
member from art education, and one additional faculty member,
supporting the major area of concentration, for a minimum of three
total. The additional faculty member may come from outside art
education, outside the Department of Art and Design, or outside of the
university. Members from outside the university community must have
credentials that further a student's research agenda and must be chosen
in consultation with the major professor.
If the student's major professor takes a leave of absence, receives a
sabbatical, or leaves the university, the student should contact the Office
of Graduate Studies in Art and Design for advice in selecting a new major
professor.
Transfer of Credits
Upon admission, an applicant may be permitted to transfer a maximum
of 12 graduate credits earned at another institution, or as a UWM non-
degree graduate student, subject to transfer credit requirements and
department approval.
Thesis
All MS in Art Education students must develop, present, and defend
a thesis to complete their degree. Two thesis options are available: a
written thesis that emphasizes scholarly research; or an applied study
that includes the development and implementation of a significant
teaching strategy or curricular model that is reported on in a written
thesis. Thesis option should be selected by a student and approved by
the major advisor before 12 graduate credits are earned.
Students must have at least two members of the Art Education area
faculty on their thesis committee and one from a related field of study.
GPA Requirements
As a masters degree student in the Department of Art & Design, you
must maintain at least a 3.0 GPA in your major of art education and a 3.0
cumulative GPA. Should you not meet this standard, you will be placed
on academic probation for the following long semester. Should you not
acquire a 3./0 GPA for the semester in which you were on probation, you
will be subject to dismissal from the program by a majority vote of the
graduate faculty.
In addition, if you earn a grade of C or lower in any art education course,
you will be placed on academic probation for the following long semester.
If you obtain a second C (or lower) at any point in your course of study,
you will be subject to dismissal from the program by a majority vote
of the graduate faculty. This includes obtaining two C's in the same
semester.
Time Limit
All coursework applied to your master’s degree must be no greater
than five years old at the time of your graduation. As individual courses
exceed that limit, they cannot count towards your MS. All students in
the graduate program are expected to make continuous and satisfactory
progress toward completion of their degrees. Failure to make adequate
and timely progress may result in removal from the program.
Program Requirements
Major Professor as Advisor
Immediately upon admission, the graduate student must contact the
Coordinator of Graduate Programs in Art and Design for initial advising
and aid in selection of a major professor from the faculty of the Art
Education area.
Focus Area Requirements and Thesis (15 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART ED 901</td>
<td>Seminar in Art-Philosophy and Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 904</td>
<td>Seminar in Art-Unique Topics:</td>
<td>3</td>
</tr>
</tbody>
</table>

Focus Area (9 credits)
Choose additional courses in consultation with major professor
that specifically focus on pre-K 12 or community environments.

Thesis (6 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART ED 990</td>
<td>Master’s Thesis</td>
<td>1-3</td>
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</tbody>
</table>

Master’s Thesis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART ED 801</td>
<td>Seminar in Urban Education and the Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 489</td>
<td>Art Education Workshop:</td>
<td>1-3</td>
</tr>
<tr>
<td>ART ED 830</td>
<td>Teaching Art With Works of Art</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 920</td>
<td>Research Methods in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 810</td>
<td>Curricular Designs for Art Instruction</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 910</td>
<td>Seminar in Art Education:</td>
<td>3</td>
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</table>

The Bachelor of Arts (Art) degree requires a total of 120 credits for
graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>University Core (p. 116)</td>
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<td>45</td>
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<tr>
<td>First Year Program (p. 116)</td>
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<td>15</td>
</tr>
<tr>
<td>BA Degree Requirements (p. 116)</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Major Requirements (p. 116)</td>
<td></td>
<td>50</td>
</tr>
</tbody>
</table>

Total Credits 120
Students in the Community Arts track are required to complete the 15-
credit Cultures and Communities certificate program (p. 1198). Those
Credits can be counted as part of the University Core or as BA Directed Electives as desired in consultation with advising.

### University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td><strong>General Education Requirements</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
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<td>Competencies&lt;sup&gt;1&lt;/sup&gt;</td>
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</tr>
<tr>
<td>English Parts A &amp; B&lt;sup&gt;2&lt;/sup&gt;</td>
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</tr>
<tr>
<td>Math Parts A &amp; B&lt;sup&gt;2&lt;/sup&gt;</td>
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<tr>
<td>Foreign Language&lt;sup&gt;2&lt;/sup&gt;</td>
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<tr>
<td><strong>Distribution Requirements</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
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</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Science (1 course with lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity&lt;sup&gt;2&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

- Advanced ARTHIST course<br>
- Select 3 arts areas outside Art and Design<br>
- Select 3 credits in an arts area<br>
- Select 9 credits outside Peck School of the Arts<br>

Total Credits: 45<br>

<sup>1</sup> Learn more about the General Education Requirements (p. 33).<br>
<sup>2</sup> Credit may be utilized in required curriculum areas.

### First Year Program

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
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<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15

### Plan of Study

#### Recommended Four-Year Sequence in Community Arts

**Year 1**

**Fall**

(Include OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
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<tr>
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<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>University Core&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3D Concepts</td>
<td>3</td>
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<tr>
<td>ART 118</td>
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<td>Directed Elective&lt;sup&gt;2&lt;/sup&gt;</td>
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<tr>
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<td>3</td>
</tr>
<tr>
<td>University Core&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15

1. Course number 150 Multicultural America (any discipline) is a prerequisite to ART 306, and can be taken as a Directed Elective or as a University Core class in the fall semester of the sophomore year.<br>
2. Directed Electives are intended to build upon and augment each student’s curricular goals (academic double-major, minor, etc.). Students in Community Arts track must complete the courses for the Cultures and Communities certificate (p. 1198) (15 credits) as part of the Directed Electives or University Core. Remaining credits: Students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives.

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>1</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 10

### Major Requirements

**Introductory Studios**

Select 6 credits of the following:<br>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 6
Year 2  
**Fall**  
Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).  
200-level studio in Art  
3  
200-level studio in Art  
3  
ARTHIST 101 Ancient and Medieval Art and Architecture  
3  
150 Multicultural America (any discipline)  
3  
University Core  
3  
Credits  
15  
**Spring**  
ART 306 Introduction to Community Art  
3  
ARTHIST 102 Renaissance to Modern Art and Architecture  
3  
Directed Elective  
3  
ART 309 Issues in Contemporary Art:  
3  
University Core  
3  
Credits  
15  
**Year 3**  
**Fall**  
300-level and above Studio Concentration  
3  
Advanced Art History choice  
3  
Directed Elective  
3  
Directed Elective  
3  
University Core  
3  
Credits  
15  
**Spring**  
300-level and above Studio Concentration  
3  
Advanced Art History choice  
3  
ART 406 Community Arts II  
3  
Directed Elective  
3  
University Core  
3  
Credits  
15  
**Year 4**  
**Fall**  
300-level and above Studio Concentration  
3  
Directed Elective  
3  
Directed Elective  
3  
Directed Elective  
3  
University Core  
3  
Credits  
15  
**Spring**  
ART 505 BA Project  
1  
ART 604 Professional Practices  
3  
Directed Elective  
2  
Directed Elective  
3  
University Core  
3  
University Core  
3  
Credits  
15  
Total Credits  
120

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2. The 32 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest. Courses required to satisfy the Cultures and Communities Certificate (p. 1198) can be part of the Directed Electives or University Core. 150 Multicultural America is a prerequisite for ART 306, and is recommended as a Directed Elective.

3. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

**Art & Design Undergraduate Admission Requirements**

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty.

1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ (http://uwm.edu/arts/apply/).)

2. Portfolio of artworks. Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.

3. Statement of Intent. Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming new freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/apply)

**Appeal Process**

An appeal process is established for students who do not meet the department’s criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher.

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
1. Complete First Year Program courses (15 credits; see course list below)  
2. Oral and Written Communications Competency Part A (OWC-A);  
3. Quantitative Literacy Competency Part A (QL-A);  
4. A cumulative GPA of 2.5 or higher  
5. Complete 9 credits required 200-level studios (see course list below).  
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.  
7. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Location:** Theatre 120  
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays  
(closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Art, BA: Design Studies**

This undergraduate degree offers students a concentrated studio art experience to complement a broad exposure to the humanities, fine arts, social sciences, and natural sciences. Bachelor of Arts (Art) students have four course tracks to choose from: Studio Arts, Design Studies, Community Arts, and Digital Fabrication and Design.

The courses required and recommended for this track are listed on the "Requirements" tab. The "Plan of Study" tab suggests course sequencing across all four years so students can meet the degree requirements. Students are required to complete 18 studio credits after the First Year Program, but may take more studio courses as part of their Directed Electives if they desire.

**Requirements**

The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>University Core</strong> (p. 118)</td>
<td><strong>45</strong></td>
</tr>
<tr>
<td></td>
<td><strong>First Year Requirements</strong> (p. 119)</td>
<td><strong>15</strong></td>
</tr>
<tr>
<td></td>
<td><strong>BA Degree Requirements</strong> (p. 119)</td>
<td><strong>10</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Major Requirements</strong> (p. 119)</td>
<td><strong>50</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>120</strong></td>
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</table>

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td></td>
<td><strong>General Education Requirements</strong> 1</td>
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</tr>
<tr>
<td></td>
<td>Competencies 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Parts A &amp; B 2</td>
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</tr>
<tr>
<td></td>
<td>Math Parts A &amp; B 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language 2</td>
<td></td>
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<tr>
<td></td>
<td>Distribution Requirements 7</td>
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</tr>
<tr>
<td>ARTIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
Natural Science (1 course with lab) 6
Cultural Diversity 2

Electives
Advanced ARTHIST course 6
Select 3 arts areas outside Art and Design 9
Select 3 credits in an arts area 3
Select 9 credits outside Peck School of the Arts 9
Total Credits 45

1 Learn more about the General Education Requirements (p. 33).
2 Credit may be utilized in required curriculum areas.

First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
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</tbody>
</table>

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>1</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
</tbody>
</table>
| Studio Concentration
Select four of the following 300-level and above courses: 12
| ART 322 | Topics in Illustration:        |         |
| ART 324 | Web Design                     |         |
| ART 325 | Web Design II                  |         |
| ART 424 | Topics in Web, Interaction and Screen Design: (subtitle) | |
| ART 427 | Advanced Design Workshop: (subtitle) | |
| ART 524 | Professional Practice in Design: | |
| ART 526 | Research in Universal Design and Fabrication (subtitle) | |
| ART 528 | Print Production and Presentation Techniques | |
| ART 608 | Art and Design Internship      |         |
| Electives
Select 32 credits from Peck School of the Arts or the University 1 32
| Total Credits |                       | 50      |

1 Directed Electives are intended to build upon and augment each student's curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives. The Art & Design Undergraduate Advisor has lists of suggested studio and academic courses to help students develop a cohesive curriculum in design.

Plan of Study

Recommended Four-Year Sequence in Design Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
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<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td></td>
<td>3</td>
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<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students are reminded that admission to the Art &amp; Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).</td>
<td></td>
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</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
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<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>ART/THIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
<td></td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART/THIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>300-level and above Studio Concentration in Art 4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
<td></td>
</tr>
<tr>
<td>Directed Elective 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Year 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300-level and above Studio Concentration in Art 4</td>
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<td></td>
</tr>
<tr>
<td>Advanced Art History choice 3</td>
<td></td>
<td>3</td>
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<tr>
<td>Directed Elective 4</td>
<td></td>
<td>3</td>
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<td>3</td>
</tr>
<tr>
<td>University Core 3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
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<td>15</td>
</tr>
</tbody>
</table>
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1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ [http://uwm.edu/arts/apply/].)

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1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
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7. Students should complete the above to advance to major within the first 45 credits.

Art, BA: Design Studies

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
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<td></td>
<td>15</td>
</tr>
</tbody>
</table>

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Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

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advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

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For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**

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Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

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Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Art, BA: Digital Fabrication and Design**

This undergraduate degree offers students a concentrated studio art experience to complement a broad exposure to the humanities, fine arts, social sciences, and natural sciences. Bachelor of Arts (Art) students have four course tracks to choose from: Studio Arts, Design Studies, Community Arts, and Digital Fabrication and Design.

The courses required and recommended for this track are listed on the "Requirements" tab. The "Plan of Study" tab suggests course sequencing across all four years so students can meet the degree requirements.

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**Requirements**

The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

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<tr>
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</tr>
</thead>
<tbody>
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<td>University Core (p. 121)</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>First Year Program (p. 121)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BA Degree Requirements (p. 122)</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Major Requirements (p. 122)</td>
<td></td>
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<td><strong>120</strong></td>
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**University Core**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td><strong>General Education Requirements</strong> ¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competencies ²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Parts A &amp; B ²</td>
<td></td>
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<td></td>
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<tr>
<td>Foreign Language ²</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Distribution Requirements</strong> ⁷</td>
<td></td>
<td></td>
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<td></td>
<td>6</td>
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<tr>
<td>Cultural Diversity ²</td>
<td></td>
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<tr>
<td><strong>Electives</strong></td>
<td></td>
<td></td>
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<tr>
<td>Advanced ARTHIST course</td>
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<td>6</td>
</tr>
<tr>
<td>Select 3 arts areas outside Art and Design</td>
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<td>9</td>
</tr>
<tr>
<td>Select 3 credits in an arts area</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits outside Peck School of the Arts</td>
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<td>9</td>
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<tr>
<td><strong>Total Credits</strong></td>
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<td><strong>45</strong></td>
</tr>
</tbody>
</table>

¹ Learn more about the General Education Requirements (p. 33).
² Credit may be utilized in required curriculum areas.

**First Year Program**

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<tr>
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<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
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<td><strong>Total Credits</strong></td>
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Degree Requirements

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<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
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<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>1</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
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Major Requirements

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<tr>
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<tbody>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
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</tr>
<tr>
<td>ART 278</td>
<td>Introduction to Industrial Craft</td>
<td>3</td>
</tr>
<tr>
<td>ART 378</td>
<td>Industrial Processes and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
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<tr>
<td>ART 578</td>
<td>Research in Digital Fabrication and Craft: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 526</td>
<td>Research in Universal Design and Fabrication (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Select 32 credits from Peck School of the Arts or the University</td>
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<tr>
<td>Total Credits</td>
<td></td>
<td>50</td>
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</tbody>
</table>

1 Directed Electives are intended to build upon and augment each student’s curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives.

Plan of Study

Recommended Four-Year Sequence in Digital Fabrication & Design

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>(Includes OWC-A and GL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.</td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
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<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
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<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication: (subtitle)</td>
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<tr>
<td>University Core</td>
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<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>Students are reminded that admission to the Art &amp; Design Program requires completion of the 36-credit Art-intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).</td>
<td></td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>1</td>
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<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective</td>
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<td>2</td>
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<tr>
<td>Directed Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Year 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>ART 378</td>
<td>3</td>
</tr>
<tr>
<td>ART 102</td>
<td>Renaissance to Modern Art and Architecture: (subtitle)</td>
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<tr>
<td>Directed Elective</td>
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<tr>
<td>Directed Elective</td>
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<tr>
<td>University Core</td>
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<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
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<tr>
<td>ART 578</td>
<td>Research in Digital Fabrication and Craft: (subtitle)</td>
<td>3</td>
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<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
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<tr>
<td>Advanced Art History choice</td>
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<tr>
<td>Directed Elective</td>
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<td>3</td>
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<tr>
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<tr>
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<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Year 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>ART 526</td>
<td>3</td>
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<tr>
<td>Directed Elective</td>
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<td>3</td>
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<tr>
<td>Directed Elective</td>
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<td>3</td>
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<td>15</td>
</tr>
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<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

1 Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2 ART 277 requires that students take ART 118 in the fall semester.

3 The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.
The 32 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest.

Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty:

1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ (http://uwm.edu/arts/apply/).)
2. Portfolio of artworks. Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.
3. Statement of Intent. Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming new freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/art-and-design/ (http://uwm.edu/arts/art-and-design/)

Appeal Process

An appeal process is established for students who do not meet the department's criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher.

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
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7. Students should complete the above to advance to major within the first 45 credits.

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Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

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</tr>
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<td></td>
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<tr>
<td>BA Degree Requirements (p. 124)</td>
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<td></td>
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<td>Total Credits</td>
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University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
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<td>General Education Requirements 1</td>
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<td></td>
</tr>
<tr>
<td>Competencies 1</td>
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<td></td>
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<tr>
<td>English Parts A &amp; B 2</td>
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<td>Math Parts A &amp; B 2</td>
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<td>Foreign Language 2</td>
<td></td>
<td></td>
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<tr>
<td>Distribution Requirements 1</td>
<td></td>
<td></td>
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<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
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<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Science (1 course with lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
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<td></td>
</tr>
<tr>
<td>Advanced ARTHIST course</td>
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<tr>
<td>Select 3 arts areas outside Art and Design</td>
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<td>9</td>
</tr>
<tr>
<td>Select 3 credits in an arts area</td>
<td></td>
<td>3</td>
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</tbody>
</table>

Select 9 credits outside Peck School of the Arts 9
Total Credits 45

1 Learn more about the General Education Requirements (p. 33).
2 Credit may be utilized in required curriculum areas.

First Year Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
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</tbody>
</table>

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 505</td>
<td>BA Project</td>
<td>1</td>
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<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar</td>
<td>3</td>
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<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
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<tr>
<td>Total Credits</td>
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Major Requirements

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Studios</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td></td>
</tr>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td></td>
</tr>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td></td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td></td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td></td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td></td>
</tr>
<tr>
<td>Studio Concentration</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Select 12 credits from ART 300+ approved studio courses chosen in consultation with advisor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>Select 32 credits from Peck School of the Arts or the University 1</td>
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<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>50</td>
</tr>
</tbody>
</table>

1 Directed Electives are intended to build upon and augment each
student's curricular goals (academic double-major, minor, etc.).
Depending on their curricular goals, students should consult with
advising in Art & Design, PSOA, and other schools on campus
(double-majors, minors, etc.) to help guide their choice of electives.
### Plan of Study

#### Recommended Four-Year Sequence in Studio Arts

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Includes OW-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students are reminded that admission to the Art &amp; Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300-level and above Studio Concentration</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Art &amp; Design Lecture Series)</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Year 3</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300-level and above Studio Concentration</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300-level and above Studio Concentration</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
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<td></td>
</tr>
<tr>
<td>300-level and above Studio Concentration</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
2. The 32 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest.
3. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

### Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty.

1. **Art & Design Portfolio form.** Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ (http://uwm.edu/arts/apply/).
2. **Portfolio of artworks.** Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.
3. **Statement of Intent.** Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming new freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/art-and-design/ (http://uwm.edu/arts/art-and-design).

### Appeal Process

An appeal process is established for students who do not meet the department’s criteria for admissions, classification, GPA, and area
of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 15

**Location**: Theatre 120

**Hours**: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)

**Contact**: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Art, BFA: Ceramics**

Our program offers a broad technical and conceptual experience through experimentation with a range of approaches to the medium, from sculptural to functional, and nontraditional to traditional.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>University Core (p. 126)</td>
<td></td>
<td>45</td>
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<tr>
<td>Art &amp; Design Core (p. 127)</td>
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<td>30</td>
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<tr>
<td>BFA Degree Requirements (p. 127)</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Area of Concentration (p. 127)</td>
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**Total Credits**: 130

**University Core**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compentencies</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>English Parts A &amp; B</td>
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<td>2</td>
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<tr>
<td>Math Parts A &amp; B</td>
<td></td>
<td>2</td>
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<tr>
<td>Foreign Language</td>
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**Distribution Requirements**: 7
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Science (1 course with lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td></td>
<td>2</td>
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</tbody>
</table>

**Electives**

- Advanced ARTHIST course: 6 credits
- Select 3 arts areas outside Art and Design: 9 credits
- Select 3 credits in an arts area: 3 credits
- Select 9 credits outside Peck School of the Arts: 9 credits

Total Credits: 45

---

**Art & Design Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>First Year Program</td>
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<tr>
<td>2.5 cumulative GPA required:</td>
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<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
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</table>

English Part A

Math Part A

200 Level Studio Electives

Select 3-6 credits of the following: 3-6 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 208</td>
<td>Color Studio</td>
<td>3</td>
</tr>
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<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>4</td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>5</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td>6</td>
</tr>
<tr>
<td>ART 269</td>
<td>Sculpture Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 289</td>
<td>Ceramics Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td>3</td>
</tr>
<tr>
<td>ART 299</td>
<td>Printmaking Workshop:</td>
<td>3</td>
</tr>
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</table>

Select 3-6 credits of the following: 3-6 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td>3</td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metallurgy</td>
<td>3</td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Critical Thinking**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
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</table>

Total Credits: 30

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**Degree Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art &amp; Design Electives</td>
<td>Select 27 credits (15 credits must be 300-level and above studio courses)</td>
<td>27</td>
</tr>
</tbody>
</table>

**Senior Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits: 31

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**Ceramics Concentration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramics Introductory</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td>3</td>
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</tbody>
</table>

**Ceramics Studio**

Select six of the following: 18 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 381</td>
<td>Throwing and Wheel Construction</td>
<td>3</td>
</tr>
<tr>
<td>ART 382</td>
<td>Building from the Figure in Clay</td>
<td>3</td>
</tr>
<tr>
<td>ART 383</td>
<td>Molds and Multiples in Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 384</td>
<td>Experimental Processes in Woodfiring I</td>
<td>3</td>
</tr>
<tr>
<td>ART 389</td>
<td>Ceramics Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 481</td>
<td>Ceramics Special Topics and Portfolio I</td>
<td>3</td>
</tr>
<tr>
<td>ART 482</td>
<td>Ceramics Special Topics and Portfolio II</td>
<td>3</td>
</tr>
<tr>
<td>ART 483</td>
<td>Ceramics Special Topics and Portfolio III</td>
<td>3</td>
</tr>
<tr>
<td>ART 489</td>
<td>Ceramics Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 584</td>
<td>Experimental Processes in Woodfiring II</td>
<td>3</td>
</tr>
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</table>

**Ceramics Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 583</td>
<td>Senior Project in Ceramics</td>
<td>3</td>
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Total Credits: 24
### Art, BFA: Ceramics

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credits</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Core</td>
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</tr>
<tr>
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<tr>
<td></td>
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<td>Credits</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students are reminded that admission to the Art &amp; Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td></td>
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<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
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<tr>
<td>University Core</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credits</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 381</td>
<td>Throwing and Wheel Construction</td>
<td>3</td>
</tr>
<tr>
<td>ART 389</td>
<td>Ceramics Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>or ART 384</td>
<td>or Experimental Processes in Woodfiring I</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
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<tr>
<td>University Core</td>
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</tr>
<tr>
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<tr>
<td></td>
<td></td>
<td>Credits</td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>Select one of the following:</td>
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<td></td>
</tr>
<tr>
<td>ART 381</td>
<td>Throwing and Wheel Construction</td>
<td>3</td>
</tr>
<tr>
<td>ART 382</td>
<td>Building from the Figure in Clay</td>
<td>3</td>
</tr>
<tr>
<td>ART 383</td>
<td>Molds and Multiples in Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td></td>
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<tr>
<td>Art &amp; Design Elective</td>
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<td></td>
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<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td></td>
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<tr>
<td>Advanced Art History choice</td>
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<tr>
<td>University Core</td>
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</tr>
<tr>
<td></td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credits</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td></td>
</tr>
<tr>
<td>ART 384</td>
<td>Experimental Processes in Woodfiring I</td>
<td>3</td>
</tr>
<tr>
<td>ART 381</td>
<td>Throwing and Wheel Construction</td>
<td>3</td>
</tr>
<tr>
<td>ART 489</td>
<td>Ceramics Workshop: (subtitle)</td>
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<tr>
<td>ART 481</td>
<td>Ceramics Special Topics and Portfolio I</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
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</tbody>
</table>

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

### Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty:

1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ (http://uwm.edu/arts/apply/).)

2. Portfolio of artworks. Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.

3. Statement of Intent. Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.
Honors in the Major

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, BFA: Design and Visual Communication

The competitive field of Design requires practitioners who are intellectually curious, inventive, dedicated, critical, collaborative, and proactive life-long learners. Our students meet that need by developing as strategists, problem-identifiers, problem-solvers, and business partners.

Students in Design and Visual Communication are required to have a laptop computer for their coursework by the first week of class, beginning with ART 221 and for all subsequent courses in Design and Visual Communication. Visit uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/) for more information.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>University Core (p. 130)</td>
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<td>45</td>
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<tr>
<td>Art &amp; Design Core (p. 130)</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>BFA Degree Requirements (p. 130)</td>
<td></td>
<td>21</td>
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</tbody>
</table>
### Area of Concentration (p. 130)

- **Total Credits**: 34

### University Core

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
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<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
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<tr>
<td></td>
<td><strong>Competencies</strong></td>
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</tr>
<tr>
<td></td>
<td>English Parts A &amp; B</td>
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</tr>
<tr>
<td></td>
<td>Math Parts A &amp; B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td></td>
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<tr>
<td></td>
<td><strong>Distribution Requirements</strong></td>
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</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Social Science</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Science (1 course with lab)</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Cultural Diversity</strong></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced ARTHIST course</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 3 arts areas outside Art and Design</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select credits in an arts area</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select credits outside Peck School of the Arts</td>
<td>9</td>
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</table>

- **Total Credits**: 45

1. Learn more about the General Education Requirements (p. 33).
2. Credit may be utilized in required curriculum areas.

### Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>First Year Program</strong></td>
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<tr>
<td></td>
<td>2.5 cumulative GPA required:</td>
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<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
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<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English Part A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Math Part A</td>
<td></td>
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<tr>
<td></td>
<td><strong>200 Level Studio Electives</strong></td>
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</tr>
<tr>
<td></td>
<td>Select 3-6 credits of the following:</td>
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</tr>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
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<tr>
<td>ART 208</td>
<td>Color Studio</td>
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</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
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<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>5</td>
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<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
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<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td></td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
<td></td>
</tr>
</tbody>
</table>

1. Completed as part of University Core.
2. Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
3. Required for Painting and Drawing concentration.
4. Required for Digital Studio Practice concentration.
5. Required for Design and Visual Communication concentration.
6. Required for Photography and Imaging concentration.

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Art &amp; Design Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 21 credits (15 credits must be 300-level and above studio courses)</td>
<td>21</td>
</tr>
</tbody>
</table>

- **Total Credits**: 21

### Design and Visual Communication Concentration

After admission into Design and Visual Communication, students must:

1. Complete ART 321 and ART 323 with a grade of B- or better to enroll in ART 421 and ART 423.
2. Complete ART 421 and ART 422 with a grade of B- or better to enroll in ART 529.
3. Complete ART 529 as Senior Capstone Experience concurrently with ART 606.
4. Complete ART 324 and either ART 325 or ART 424. These required courses are not part of the core sequence, and may be taken any time after prerequisites are met.
5. Complete two of the six following courses (6 credits): ART 423, ART 426, ART 524, ART 526, ART 528, or either ART 325 or ART 424 not taken in point 4.
6. Complete 9 credits of Design and Visual Communication Expanded Studies (ES) all outside the Peck School of the Arts. See your advisor
in the Peck School of the Arts Student Services Office for an updated list of recommended courses.

Students may petition to substitute for some or all of the DVC Expanded Studies courses. Likely candidates would be students with a high GPA who have tested out of freshman English; double majors; and students with a keen and credible interest in another area of study. Petitions to substitute for courses will be evaluated on a case-by-case basis by Design faculty and will be subject to an appeals process.

### Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 221</td>
<td>Introduction to Design (credit from Art &amp; Design core)</td>
<td>3</td>
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<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 321</td>
<td>Design and Visual Communication I</td>
<td>3</td>
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<tr>
<td>ART 323</td>
<td>Typography II</td>
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<tr>
<td>ART 421</td>
<td>Design and Visual Communication II</td>
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</tr>
<tr>
<td>ART 422</td>
<td>Design Methodologies: Process, Communication &amp; Theory</td>
<td>3</td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
<td>3</td>
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<tr>
<td>ART 424</td>
<td>Topics in Web, Interaction and Screen Design: (subtitle)</td>
<td>3</td>
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<tr>
<td>or ART 325</td>
<td>Web Design II (whichever course is not taken in Required Interaction Design Courses)</td>
<td>3</td>
</tr>
<tr>
<td>ART 423</td>
<td>Experimental Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 426</td>
<td>Motion Graphics</td>
<td>3</td>
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<tr>
<td>ART 427</td>
<td>Advanced Design Workshop: (subtitle)</td>
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<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
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</tr>
<tr>
<td>ART 526</td>
<td>Research in Universal Design and Fabrication (subtitle)</td>
<td>3</td>
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<tr>
<td>ART 528</td>
<td>Print Production and Presentation Techniques</td>
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<tr>
<td>ART 529</td>
<td>Design and Visual Communication III (Senior Capstone)</td>
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<tr>
<td>ART 606</td>
<td>BFA Exhibition in Design</td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

### Art BFA in Design and Visual Communication – Recommended Curriculum

#### Year 1

**Fall**

(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
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<td>University Core 1</td>
<td></td>
<td>3</td>
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<td></td>
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**Spring**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
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<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Credits</td>
<td>15</td>
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</tbody>
</table>

#### Year 2

**Fall**

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Portfolio review for students in Design and Visual Communication is held in spring semester only. Portfolio review guidelines are available from the area.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture 3</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
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<td>Credits</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 223</td>
<td>Introduction to Typography (Counts as 2D 200 level)</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture 3</td>
<td>3</td>
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<td>University Core 1</td>
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#### Year 3

**Fall**

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<th>Course</th>
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<tbody>
<tr>
<td>ART 321</td>
<td>Design and Visual Communication I</td>
<td>3</td>
</tr>
<tr>
<td>ART 424</td>
<td>Topics in Web, Interaction and Screen Design: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>or ART 325</td>
<td>Web Design II (whichever course is not taken in Required Interaction Design Courses)</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Advanced Art History choice 3</td>
<td></td>
<td>3</td>
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<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credits</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 323</td>
<td>Typography II</td>
<td>3</td>
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<td>DVC Required Core Choice</td>
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<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
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<tr>
<td>Art &amp; Design Elective</td>
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<td>Advanced Art History choice 3</td>
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<tr>
<td></td>
<td>Credits</td>
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</table>
Year 4

Fall
ART 421 Design and Visual Communication II 3
ART 422 Design Methodologies: Process, Communication & Theory 3
DVC Required Core Choice 3
Art & Design Elective 3
Art & Design Elective 3
University Core 1

Credits 18

Spring
ART 529 Design and Visual Communication III 3
Art & Design Elective 3
Art & Design Elective 3
University Core 1

Credits 16

Total Credits 130

1 Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2 Students must complete ART 124, ART 221, and ART 223 to be eligible for portfolio review.

3 The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty:

1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ (http://uwm.edu/arts/apply)).

2. Portfolio of artworks. Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.

3. Statement of Intent. Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming new freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/art-and-design/ (http://uwm.edu/arts/art-and-design).

Appeal Process

An appeal process is established for students who do not meet the department's criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher:

1. Complete First Year Program courses (15 credits; see course list below).
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

Code Title Credits
ART 101 Drawing I 3
ART 106 Art Survey 3
ART 108 2D Concepts 3
ART 109 3D Concepts 3
ART 118 Digital Arts: Culture, Theory, Practice 3

Total Credits 15

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.
Honors in the Major
Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, BFA: Digital Studio Practice
Centered on the study and use of digital technologies in direct relation to traditional visual art, our students combine interactive and electronic media with a secondary established focus (such as Ceramics, Fibers, Design etc.) to create new forms of art.

Requirements
Students wishing to major in Digital Studio Practice must complete the following requirements:

1. meet all Art & Design Department admission and minimum GPA requirements (p. 135);
2. complete Digital Studio Practice Introductory Requirement (3 credits): ART 212 and one other 200-level class (in your cross-disciplinary focus area; see below);
3. pass Digital Studio Practice portfolio review. First opportunity to apply to Portfolio Review takes place at the completion of ART 212;
4. complete 12 credits in a cross-disciplinary focus (6 of which must be at 300 level and above); and
5. students in Digital Studio Practice are required to have a laptop computer with required software beginning with ART 212. Visit http://uwm.edu/arts/apply/laptop/ for more information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 133)</td>
<td>University Core (p. 133)</td>
<td>45</td>
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<tr>
<td>Art &amp; Design Core (p. 133)</td>
<td>Art &amp; Design Core (p. 133)</td>
<td>30</td>
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<tr>
<td>BFA Degree Requirements (p. 134)</td>
<td>BFA Degree Requirements (p. 134)</td>
<td>31</td>
</tr>
<tr>
<td>Area of Concentration (p. 134)</td>
<td>Area of Concentration (p. 134)</td>
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University Core

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<tr>
<td>General Education Requirements 1</td>
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<td>Foreign Language 2</td>
<td>Foreign Language 2</td>
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<tr>
<td>Distribution Requirements 1</td>
<td>Distribution Requirements 1</td>
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<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
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<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>Social Science</td>
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<tr>
<td>Natural Science (1 course with lab)</td>
<td>Natural Science (1 course with lab)</td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity 2</td>
<td>Cultural Diversity 2</td>
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</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>Advanced ARTHIST course</td>
<td>Advanced ARTHIST course</td>
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<td>Select 3 arts areas outside Art and Design</td>
<td>Select 3 arts areas outside Art and Design</td>
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<tr>
<td>Select 3 credits in an arts area</td>
<td>Select 3 credits in an arts area</td>
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</tr>
<tr>
<td>Select 9 credits outside Peck School of the Arts</td>
<td>Select 9 credits outside Peck School of the Arts</td>
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<tr>
<td>Total Credits</td>
<td>Total Credits</td>
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</table>

1 Learn more about the General Education Requirements (p. 33).
2 Credit may be utilized in required curriculum areas.

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
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<td>2.5 cumulative GPA required:</td>
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<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
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<tr>
<td>Math Part A 1</td>
<td>Math Part A 1</td>
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<td>200 Level Studio Electives 2</td>
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<td>Select 3-6 credits of the following:</td>
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<tr>
<td>ART 201</td>
<td>Drawing II 3</td>
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<td>ART 208</td>
<td>Color Studio</td>
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**Digital Studio Practice Concentration**

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<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
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<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
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<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
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<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
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<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
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<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
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<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
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<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
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<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
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<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
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</tr>
<tr>
<td>ART 269</td>
<td>Sculpture Workshop:</td>
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<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
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<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
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<tr>
<td>ART 289</td>
<td>Ceramics Workshop:</td>
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<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
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<tr>
<td>ART 299</td>
<td>Printmaking Workshop:</td>
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Select 3-6 credits of the following: 3-6

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<tbody>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
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<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
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</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
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<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
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</table>

**Critical Thinking**

<table>
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<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 30

---

1. Completed as part of University Core.
2. Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
3. Required for Painting and Drawing concentration.
4. Required for Digital Studio Practice concentration.
5. Required for Design and Visual Communication concentration.
6. Required for Photography and Imaging concentration.

**Degree Requirements**

<table>
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<tr>
<th>Code</th>
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<tr>
<td></td>
<td>Art &amp; Design Electives</td>
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<td></td>
<td>Select 27 credits (15 credits must be 300-level and above studio courses)</td>
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**Senior Capstone**

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<tr>
<td>ART 604</td>
<td>Professional Practices</td>
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<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
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</tbody>
</table>

Total Credits 31

**Cross-Disciplinary Focus**

All DSP students must choose a secondary focus area within the Department of Art & Design, with which to combine their digital skill sets. Students must fulfill at least 12 of the above Art and Design elective credits in their cross-disciplinary focus area (at least 6 of these credits must be at 300 level or above).

---

**Digital Studio Practice Introductory**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
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**Digital Studio Practice Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 312</td>
<td>Intermediate Digital Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 315</td>
<td>Participatory Art and Social Practice</td>
<td>3</td>
</tr>
<tr>
<td>or ART 316</td>
<td>Interactive and Multimedia Art</td>
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</table>

Select four of the following (subtitled classes may be taken twice with change of topic): 12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ART 314</td>
<td>Digital Painting</td>
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<tr>
<td>ART 315</td>
<td>Participatory Art and Social Practice</td>
<td></td>
</tr>
<tr>
<td>ART 316</td>
<td>Interactive and Multimedia Art</td>
<td></td>
</tr>
<tr>
<td>ART 318</td>
<td>Electronics and Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
<td></td>
</tr>
<tr>
<td>ART 327</td>
<td>Digital Media Workshop: (subtitle)</td>
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<tr>
<td>ART 378</td>
<td>Industrial Processes and Fabrication</td>
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</tr>
<tr>
<td>ART 393</td>
<td>Digital Printmaking</td>
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<tr>
<td>ART 405</td>
<td>Product Realization</td>
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<tr>
<td>ART 412</td>
<td>Advanced Digital Studio</td>
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<tr>
<td>ART 418</td>
<td>Advanced Electronics and Sculpture: (subtitle)</td>
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</tr>
<tr>
<td>ART 426</td>
<td>Motion Graphics</td>
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<tr>
<td>ART 456</td>
<td>Advanced Digital Photography</td>
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<tr>
<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
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**Digital Studio Practice Capstone**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 612</td>
<td>Senior Project in Digital Studio Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 24

1. Subtitled classes may be taken twice with change of topic.

**Art BFA – Sample Curriculum in Digital Studio Practice**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
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</tbody>
</table>

Total Credits 15

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>2</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Credits 15
Year 2

Fall
Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200-level studio in Art 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
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</tr>
</tbody>
</table>

Credits 18

Spring

ART 312 | Intermediate Digital Studio                                           | 3       |
ART 315 | Participatory Art and Social Practice or ART 316 or Interactive and Multimedia Art | 3 |
Art & Design Elective (recommend 200- or 300-level cross-disciplinary focus) | 3 |
ARTHIST 102 | Renaissance to Modern Art and Architecture | 3   |
University Core 1 |                                                                 | 3       |

Credits 15

Year 3

Fall

300+ Core Choice DSP Studio course 6 |                                                                 | 3       |
300+ Core Choice DSP Studio course 6 |                                                                 | 3       |
Art & Design Elective (recommend 300-level or above cross-disciplinary focus) | 3 |
Art & Design Elective |                                                                 | 3       |
Advanced Art History choice (recommend contemporary or new media art course, or one related to architecture) 5 | 3 |
University Core 1 |                                                                 | 3       |

Credits 18

Spring

300+ Core Choice DSP Studio courses: 6 |                                                                 | 3       |
Art & Design Elective |                                                                 | 3       |
ART 509 | Art & Design Seminar: (subtitle)                                     | 3       |
Advanced Art History choice (recommend contemporary or new media art course, or one related to architecture) 5 | 3 |
University Core 1 |                                                                 | 3       |

Credits 15

Year 4

Fall

ART 604 | Professional Practices                                              | 3       |
300+ Core Choice DSP Studio course 6 |                                                                 | 3       |
Art & Design Elective (may include DSP Core Choices) | 3 |
Art & Design Elective (may include DSP Core Choices) | 3 |
Art & Design Elective |                                                                 | 3       |
University Core 1 |                                                                 | 3       |

Credits 18

Spring

ART 605 | BFA Exhibition                                                      | 1       |
ART 612 | Senior Project in Digital Studio Practice                           | 3       |
Art & Design Elective (may be Core Choice or cross-disciplinary focus) | 3 |
Art & Design Elective (may be Core Choice or cross-disciplinary focus) | 3 |
University Core 1 |                                                                 | 3       |
University Core 1 |                                                                 | 3       |

Credits 16

Total Credits 130

1 Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2 Digital Studio Practice Portfolio Review takes place at the completion of ART 212.

3 ART 261 or ART 277 recommended.

4 200-level studio (ART 221, ART 231, ART 253, ART 261, ART 271, ART 281, or ART 291)

5 The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

6 300+ Core Choice DSP Studio course (ART 315, ART 316, ART 318, ART 324, ART 327, ART 378, ART 393, ART 405, or ART 426)

Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty.

1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ (http://uwm.edu/arts/apply/).)

2. Portfolio of artworks. Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.

3. Statement of Intent. Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/art-and-design/ (http://uwm.edu/arts/art-and-design).

Appeal Process

An appeal process is established for students who do not meet the department’s criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.
Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, BFA: Fibers

Our program includes a multi-cultural history of textiles, contemporary fiber artists, and the integration of traditional techniques with digital media. Students will develop an understanding and appreciation of fibers and its visual language, while learning its traditional processes and contemporary applications.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University Core (p. 136)</td>
<td>45</td>
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<tr>
<td></td>
<td>Art &amp; Design Core (p. 137)</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>BFA Degree Requirements (p. 137)</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Area of Concentration (p. 137)</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>130</td>
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</table>

University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements ¹</td>
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</tr>
<tr>
<td></td>
<td>Competencies ¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Parts A &amp; B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Math Parts A &amp; B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language ²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Distribution Requirements ¹</td>
<td></td>
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<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
</tbody>
</table>
Social Science 6
Natural Science (1 course with lab) 6
Cultural Diversity 2

Electives
Advanced ARTHIST course 6
Select 3 arts areas outside Art and Design 9
Select 3 credits in an arts area 3
Select 9 credits outside Peck School of the Arts 9
Total Credits 45

1 Learn more about the General Education Requirements (p. 33).
2 Credit may be utilized in required curriculum areas.

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>First Year Program</td>
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<tr>
<td>2.5 cumulative GPA required:</td>
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<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>English Part A 1</td>
<td></td>
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<tr>
<td>Math Part A 1</td>
<td></td>
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<tr>
<td>200 Level Studio Electives 2</td>
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<tr>
<td>Select 3-6 credits of the following:</td>
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<tr>
<td>ART 201</td>
<td>Drawing II 3</td>
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<tr>
<td>ART 208</td>
<td>Color Studio</td>
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<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies 4</td>
<td></td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design 5</td>
<td></td>
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<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td></td>
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<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td></td>
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<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
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<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
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<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
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<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
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<td>ART 253</td>
<td>Introduction to Photography 6</td>
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<td>ART 269</td>
<td>Sculpture Workshop:</td>
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<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
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<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
<td></td>
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<tr>
<td>ART 289</td>
<td>Ceramics Workshop:</td>
<td></td>
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<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
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<td>ART 299</td>
<td>Printmaking Workshop:</td>
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<td>Select 3-6 credits of the following:</td>
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<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
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<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
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<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
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<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
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</table>

Critical Thinking

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

1 Completed as part of University Core.
2 Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
3 Required for Painting and Drawing concentration.
4 Required for Digital Studio Practice concentration.
5 Required for Design and Visual Communication concentration.
6 Required for Photography and Imaging concentration.

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art &amp; Design Electives</td>
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</tr>
<tr>
<td>Select 27 credits (15 credits must be 300-level and above studio courses)</td>
<td>27</td>
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<tr>
<td>Senior Capstone</td>
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<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
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<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
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<tr>
<td>Total Credits</td>
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</table>

Fibers Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fibers Introductory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td>3</td>
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<tr>
<td>Fibers Core</td>
<td></td>
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<tr>
<td>Select six of the following:</td>
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<tr>
<td>ART 332</td>
<td>Woven Structure I</td>
<td></td>
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<tr>
<td>ART 333</td>
<td>Pliable Materials/Sculptural Forms</td>
<td></td>
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<tr>
<td>ART 336</td>
<td>Print, Paint and Dye on Fabric</td>
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<tr>
<td>ART 337</td>
<td>Screen Printing on Fabric</td>
<td></td>
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<tr>
<td>ART 431</td>
<td>Special Topics in Fibers:</td>
<td></td>
</tr>
<tr>
<td>ART 432</td>
<td>Woven Structure II</td>
<td></td>
</tr>
<tr>
<td>ART 433</td>
<td>Digital Imaging for Fabric</td>
<td></td>
</tr>
<tr>
<td>ART 435</td>
<td>Mixed Materials: Concept/Object</td>
<td></td>
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<tr>
<td>ART 436</td>
<td>Cloth Construction: Surface to Structure</td>
<td></td>
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<tr>
<td>ART 539</td>
<td>Fibers-Independent Study</td>
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<tr>
<td>Fibers Capstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 531</td>
<td>Senior Project in Fibers</td>
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<tr>
<td>Total Credits</td>
<td>24</td>
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</tr>
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</table>

Art BFA – Sample Curriculum in Fibers

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>or ART 109</td>
<td>2D Concepts or 3D Concepts</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Select one of the following:

- **ART 231** Introduction to Fibers
- **200-level studio in Art**
- **University Core**
- **University Core**

**Year 2**

**Fall**

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Select one of the following:

- **ART 231** Introduction to Fibers
- **200-level studio in Art**
- **200-level studio in Art**
- **ART 309** Issues in Contemporary Art
- **ARTHIST 101** Ancient and Medieval Art and Architecture
- **University Core**

**Spring**

Select one of the following:

- **ART 337** Screen Printing on Fabric or Print, Paint and Dye on Fabric
- **ART 332** Woven Structure I
- **ART 431** Special Topics in Fibers
- **ART 435** Mixed Materials: Concept/Object
- **ARTHIST 102** Renaissance to Modern Art and Architecture
- **University Core**

**Year 3**

**Fall**

Select one of the following:

- **ART 333** Pliable Materials/Sculptural Forms
- **ART 336** Print, Paint and Dye on Fabric
- **ART 433** Digital Imaging for Fabric
- **ART 436** Cloth Construction: Surface to Structure
- **Art & Design Elective**
- **Art & Design Elective**
- **Advanced Art History choice**
- **University Core**

**Spring**

Select one of the following:

- **ART 431** Special Topics in Fibers
- **ART 432** Woven Structure II
- **ART 435** Mixed Materials: Concept/Object
- **ART 509** Art & Design Seminar: (subtitle)
- **Art & Design Elective**
- **Advanced Art History choice**
- **University Core**

**Year 4**

**Fall**

Select one of the following:

- **ART 604** Professional Practices
- **ART 605** BFA Exhibition
- **ART 531** Senior Project in Fibers
- **Art & Design Elective**
- **University Core**
- **University Core**

**Total Credits**

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

**Art & Design Undergraduate Admission Requirements**

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty.

1. **Art & Design Portfolio form.** Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ [http://uwm.edu/arts/apply/].)

2. **Portfolio of artworks.** Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.

3. **Statement of Intent.** Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/apply.

**Appeal Process**

An appeal process is established for students who do not meet the department’s criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal...
process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher.

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**

15

**Location:** Theatre 120  
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays *(closed on university holidays)*  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/).

**Honors in the Major**

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earning a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Art, BFA: Jewelry and Metalsmithing**

In development of metal objects and wearables, our program focuses on qualities unique to Metalsmithing as a craft practice. Students gain an understanding of the discipline, its conditions, possibilities and limitations, while allowing for multiple traditional and experimental processes and approaches.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 139)</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>Art &amp; Design Core (p. 140)</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>BFA Degree Requirements (p. 140)</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Area of Concentration (p. 140)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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<td>130</td>
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</table>

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>General Education Requirements</td>
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<tr>
<td>Competencies 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Parts A &amp; B 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math Parts A &amp; B 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution Requirements 7</td>
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<td></td>
</tr>
</tbody>
</table>

1. For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/).
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Science (1 course with lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity ²</td>
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**Electives**

<table>
<thead>
<tr>
<th>Advanced ARTHIST course</th>
<th>6</th>
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</thead>
<tbody>
<tr>
<td>Select 3 arts areas outside Art and Design</td>
<td>9</td>
</tr>
<tr>
<td>Select 3 credits in an arts area</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits outside Peck School of the Arts</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td>45</td>
</tr>
</tbody>
</table>

¹ Learn more about the General Education Requirements (p. 33).
² Credit may be utilized in required curriculum areas.

### Art & Design Core

**First Year Program**

2.5 cumulative GPA required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

| English Part A ¹ |                              |         |
| Math Part A ¹ |                              |         |

**200 Level Studio Electives ²**

Select 3-6 credits of the following: 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II</td>
<td>³</td>
</tr>
<tr>
<td>ART 208</td>
<td>Color Studio</td>
<td></td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies ⁴</td>
<td></td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
<td>⁵</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td></td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td></td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td></td>
</tr>
<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td>⁶</td>
</tr>
<tr>
<td>ART 269</td>
<td>Sculpture Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 289</td>
<td>Ceramics Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td></td>
</tr>
<tr>
<td>ART 299</td>
<td>Printmaking Workshop:</td>
<td></td>
</tr>
</tbody>
</table>

Select 3-6 credits of the following: 3-6

**Art & Design Electives**

Select 27 credits (15 credits must be 300-level and above studio courses) 27

**Senior Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

### Ceramic Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td></td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td></td>
</tr>
</tbody>
</table>

**Critical Thinking**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

¹ Completed as part of University Core.
² Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
³ Required for Painting and Drawing concentration.
⁴ Required for Digital Studio Practice concentration.
⁵ Required for Design and Visual Communication concentration.
⁶ Required for Photography and Imaging concentration.

### Degree Requirements

**Art & Design Electives**

Select 27 credits (15 credits must be 300-level and above studio courses) 27

**Senior Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>3</td>
</tr>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

### Jewelry and Metalsmithing Concentration

**Jewelry and Metalsmithing Introductory**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Jewelry and Metalsmithing Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 371</td>
<td>Construction and Fabrication in Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>ART 474</td>
<td>Portfolio Development in Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four of the following: 12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 372</td>
<td>The Multiple in Jewelry and Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>ART 378</td>
<td>Industrial Processes and Fabrication</td>
<td></td>
</tr>
<tr>
<td>ART 470</td>
<td>Metal Forming</td>
<td></td>
</tr>
<tr>
<td>ART 472</td>
<td>Color on Metal</td>
<td></td>
</tr>
<tr>
<td>ART 473</td>
<td>Special Topics in Jewelry and Metalsmithing: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
<td></td>
</tr>
</tbody>
</table>

**Jewelry and Metalsmithing Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 575</td>
<td>Senior Project in Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>
**Recommended Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 379</td>
<td>Jewelry and Metalsmithing Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 473</td>
<td>Special Topics in Jewelry and Metalsmithing: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 479</td>
<td>Jewelry and Metalsmithing Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
</tbody>
</table>

**Art BFA–Sample Curriculum in Jewelry and Metalsmithing**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students are reminded that admission to the Art &amp; Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>ART 371</td>
<td>Construction and Fabrication in Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 378</td>
<td>Industrial Processes and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 372</td>
<td>The Multiple in Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td></td>
</tr>
<tr>
<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
<td>3</td>
</tr>
<tr>
<td>200-level studio in Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 473</td>
<td>Special Topics in Jewelry and Metalsmithing: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
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<td><strong>Fall</strong></td>
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<tr>
<td>ART 470</td>
<td>Metal Forming</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td></td>
</tr>
<tr>
<td>ART 473</td>
<td>Special Topics in Jewelry and Metalsmithing: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Credits</strong></td>
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<td><strong>15</strong></td>
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<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 472</td>
<td>Color on Metal</td>
<td>3</td>
</tr>
<tr>
<td>ART 474</td>
<td>Portfolio Development in Jewelry and Metalsmithing</td>
<td>3</td>
</tr>
<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar: (subtitle)</td>
<td>3</td>
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<tr>
<td>Advanced Art History choice</td>
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<td><strong>Credits</strong></td>
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<tr>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>ART 604</td>
<td>Professional Practices</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>ART 473</td>
<td>Special Topics in Jewelry and Metalsmithing: (subtitle)</td>
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<tr>
<td><strong>Credits</strong></td>
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<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
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<td>ART 575</td>
<td>Senior Project in Jewelry and Metalsmithing</td>
<td>3</td>
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<tr>
<td>Art &amp; Design Elective</td>
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<td><strong>Total Credits</strong></td>
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</tbody>
</table>

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1. Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
2. The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER. 200-level studio in Art (ART 231 or ART 261 or ART 281)
3. 200-level studio in Art (ART 231 or ART 261 or ART 281)

**Art & Design Undergraduate Admission Requirements**

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty.
1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ [http://uwm.edu/arts/apply/].)

2. Portfolio of artworks. Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.

3. Statement of Intent. Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/art-and-design/ [http://uwm.edu/arts/art-and-design/].

**Appeal Process**

An appeal process is established for students who do not meet the department's criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
Art, BFA: Painting and Drawing

Our program provides an intensive opportunity to develop formal and technical skills, balanced with conceptual and material exploration. Students are encouraged to search for answers to questions about the relevance and position painting holds in contemporary art practice, its relation to global visual culture, and today’s information-age and multicultural environments.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>University Core (p. 143)</td>
<td></td>
<td>45</td>
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<tr>
<td>Art &amp; Design Core (p. 143)</td>
<td></td>
<td>30</td>
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<tr>
<td>BFA Degree Requirements (p. 143)</td>
<td></td>
<td>31</td>
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<tr>
<td>Area of Concentration (p. 144)</td>
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University Core

<table>
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<tr>
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<tr>
<td>General Education Requirements (^1)</td>
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<tr>
<td>Compentencies (^2)</td>
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<tr>
<td>Math Parts A &amp; B (^2)</td>
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<td>Foreign Language (^2)</td>
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<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
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<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
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</tr>
<tr>
<td>Social Science</td>
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<tr>
<td>Natural Science (1 course with lab)</td>
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<td>6</td>
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<tr>
<td>Cultural Diversity (^2)</td>
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<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Advanced ARTHIST course</td>
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</tr>
<tr>
<td>Select 3 arts areas outside Art and Design</td>
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<tr>
<td>Select 3 credits in an arts area</td>
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</tr>
<tr>
<td>Select 9 credits outside Peck School of the Arts</td>
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<tr>
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1. Learn more about the General Education Requirements (p. 33).
2. Credit may be utilized in required curriculum areas.

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>2.5 cumulative GPA required:</td>
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<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
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<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
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<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
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</tr>
<tr>
<td>English Part A (^1)</td>
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Math Part A \(^1\)

200 Level Studio Electives \(^2\)

Select 3-6 credits of the following: 3-6

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<tr>
<td>ART 201</td>
<td>Drawing II (^3)</td>
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<tr>
<td>ART 208</td>
<td>Color Studio</td>
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<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies (^4)</td>
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<tr>
<td>ART 221</td>
<td>Introduction to Design (^5)</td>
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<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
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<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
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<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
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<tr>
<td>ART 253</td>
<td>Introduction to Photography (^6)</td>
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<td>ART 269</td>
<td>Sculpture Workshop:</td>
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<td>ART 277</td>
<td>Design for Digital Fabrication</td>
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<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
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<td>ART 289</td>
<td>Ceramics Workshop:</td>
<td>3</td>
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<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td>3</td>
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<td>ART 299</td>
<td>Printmaking Workshop:</td>
<td>3</td>
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<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
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<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
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<tr>
<td>Total Credits</td>
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1. Complete as part of University Core.
2. Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
3. Required for Painting and Drawing concentration.
4. Required for Digital Studio Practice concentration.
5. Required for Design and Visual Communication concentration.
6. Required for Photography and Imaging concentration.

Degree Requirements

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<tr>
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<td>Senior Capstone</td>
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<td>Professional Practices</td>
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Painting and Drawing Concentration

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Painting and Drawing Core

<table>
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<tr>
<td>ART 342</td>
<td>Introduction to Figure Drawing</td>
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<td>ART 343</td>
<td>Figure Painting</td>
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<tr>
<td>ART 441</td>
<td>Advanced Drawing Strategies I</td>
<td>3</td>
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<tr>
<td>ART 443</td>
<td>Painting Strategies</td>
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<tr>
<td>ART 543</td>
<td>Painting Studio</td>
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Select one of the following: 3

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<tr>
<td>ART 442</td>
<td>Figure Drawing Explorations</td>
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<td>ART 541</td>
<td>Advanced Drawing Strategies II</td>
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<td>ART 543</td>
<td>Painting Studio (recommended retake)</td>
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Painting and Drawing Capstone

<table>
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<th>Credits</th>
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<tbody>
<tr>
<td>ART 643</td>
<td>Senior Project in Painting</td>
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Total Credits 24

Art BFA – Sample Curriculum in Painting and Drawing

Course | Title                              | Credits |
---|------------------------------------|---------|
**Year 1**

**Fall**
(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
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<td>Drawing I</td>
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<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
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<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
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<td>3</td>
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<tr>
<td>University Core</td>
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Spring

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
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<tr>
<td>ART 201</td>
<td>Drawing II</td>
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<tr>
<td>University Core</td>
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Total Credits 18

**Year 2**

**Fall**
Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td>3</td>
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<td>ART 342</td>
<td>Introduction to Figure Drawing</td>
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Select one of the following 200-level Studios:

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<tbody>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td>3</td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
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<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
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<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
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<td>University Core</td>
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Spring

<table>
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Total Credits 18

**Year 3**

**Fall**

<table>
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<tr>
<td>ART 443</td>
<td>Painting Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 441</td>
<td>Advanced Drawing Strategies I</td>
<td>3</td>
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<tr>
<td>Art &amp; Design Elective</td>
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Spring

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<th>Credits</th>
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<tbody>
<tr>
<td>ART 543</td>
<td>Painting Studio (recommend retake)</td>
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<td>Art &amp; Design Elective</td>
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Total Credits 18

**Year 4**

**Fall**

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<tr>
<td>ART 604</td>
<td>Professional Practices</td>
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Select one of the following:

<table>
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<th>Title</th>
<th>Credits</th>
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<td>ART 442</td>
<td>Figure Drawing Explorations</td>
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</tr>
<tr>
<td>ART 541</td>
<td>Advanced Drawing Strategies II</td>
<td>3</td>
</tr>
<tr>
<td>ART 543</td>
<td>Painting Studio (recommend retake)</td>
<td>3</td>
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<tr>
<td>Art &amp; Design Elective</td>
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<td>Art &amp; Design Elective</td>
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**Spring**

<table>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
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</tr>
<tr>
<td>ART 643</td>
<td>Senior Project in Painting</td>
<td>3</td>
</tr>
<tr>
<td>Art &amp; Design Elective</td>
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Total Credits 15

**Total Credits** 130

1 Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement: 6 credits are required in Peck School of the Arts courses outside of Art & Design. 3 credits must be taken in 2 different Arts disciplines: Dance, Film, Music, or Theatre.

2 The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty.
1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ (http://uwm.edu/arts/apply/).)

2. Portfolio of artworks. Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.

3. Statement of Intent. Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for department-level scholarships, incoming freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/art-and-design/ (http://uwm.edu/arts/art-and-design/).

**Appeal Process**

An appeal process is established for students who do not meet the department's criteria for admissions, classification, GPA, and area of concentration. To request admission as an art major or enrollment into courses as exceptions to the department's enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor; who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

**Advancement to Major**

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A)
3. Quantitative Literacy Competency Part A (QL-A)
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below)
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

![Course List](http://uwm.edu/arts/art-and-design/)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
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<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
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**Honors in the Major**

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

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**Honors in the Peck School of the Arts**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
Art, BFA: Photography and Imaging

Our program emphasizes a conceptual fine art practice through the production of darkroom, digital, and hybrid work. Courses integrate socially situated projects with an understanding of both contemporary and historical visual culture by developing a vocabulary for effective communication within the photographic medium.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>University Core (p. 146)</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Art &amp; Design Core (p. 146)</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>BFA Degree Requirements (p. 146)</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Area of Concentration (p. 147)</td>
<td>27</td>
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<td></td>
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University Core

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<td></td>
<td>General Education Requirements ¹</td>
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</tr>
<tr>
<td></td>
<td>Competencies ¹</td>
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</tr>
<tr>
<td></td>
<td>English Parts A &amp; B ²</td>
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</tr>
<tr>
<td></td>
<td>Math Parts A &amp; B ²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language ²</td>
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<tr>
<td></td>
<td>Distribution Requirements ¹</td>
<td></td>
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<tr>
<td></td>
<td>ARTHIST 101 Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTHIST 102 Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social Science</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Science (1 course with lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity ²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced ARTHIST course</td>
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</tr>
<tr>
<td></td>
<td>Select 3 arts areas outside Art and Design</td>
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</tr>
<tr>
<td></td>
<td>Select 3 credits in an arts area</td>
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</tr>
<tr>
<td></td>
<td>Select 9 credits outside Peck School of the Arts</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>45</td>
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</table>

¹ Learn more about the General Education Requirements (p. 33).
² Credit may be utilized in required curriculum areas.

Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
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<td>First Year Program</td>
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<td></td>
<td>2.5 cumulative GPA required:</td>
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<tr>
<td></td>
<td>ART 101 Drawing I</td>
<td>3</td>
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<tr>
<td></td>
<td>ART 106 Art Survey</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 108 2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 109 3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 118 Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English Part A ¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Math Part A ¹</td>
<td></td>
</tr>
</tbody>
</table>

¹ Completed as part of University Core.
² Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
³ Required for Painting and Drawing concentration.
⁴ Required for Digital Studio Practice concentration.
⁵ Required for Design and Visual Communication concentration.
⁶ Required for Photography and Imaging concentration.

200 Level Studio Electives ²

Select 3-6 credits of the following: 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Drawing II ³</td>
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<tr>
<td>ART 208</td>
<td>Color Studio</td>
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<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies ⁴</td>
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</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design ⁵</td>
<td></td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td>ART 223</td>
<td>Introduction to Typography</td>
<td></td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td></td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop:</td>
<td></td>
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<tr>
<td>ART 238</td>
<td>Fiber Workshop:</td>
<td></td>
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<tr>
<td>ART 243</td>
<td>Introduction to Painting</td>
<td></td>
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<tr>
<td>ART 249</td>
<td>Painting and Drawing Workshop:</td>
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<tr>
<td>ART 253</td>
<td>Introduction to Photography ⁶</td>
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<tr>
<td>ART 269</td>
<td>Sculpture Workshop:</td>
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<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
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<tr>
<td>ART 279</td>
<td>Jewelry and Metalsmithing Workshop:</td>
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</tr>
<tr>
<td>ART 289</td>
<td>Ceramics Workshop:</td>
<td></td>
</tr>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td></td>
</tr>
<tr>
<td>ART 299</td>
<td>Printmaking Workshop:</td>
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Select 3-6 credits of the following: 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
<td></td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
<td></td>
</tr>
</tbody>
</table>

Critical Thinking

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
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<tr>
<td>ART 509</td>
<td>Art &amp; Design Seminar:</td>
<td>3</td>
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</tbody>
</table>

Total Credits 30

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Art &amp; Design Electives</td>
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</tr>
<tr>
<td></td>
<td>Select 24 credits (15 credits must be 300-level and above studio courses)</td>
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<tr>
<td></td>
<td>Senior Capstone</td>
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</tr>
<tr>
<td></td>
<td>ART 604</td>
<td>Professional Practices</td>
</tr>
<tr>
<td></td>
<td>ART 605</td>
<td>BFA Exhibition</td>
</tr>
</tbody>
</table>

Total Credits 28
Photography and Imaging Concentration

Students in Photography and Imaging (PI) are required to have a laptop computer for their coursework by the first week of class, beginning with ART 350 and ART 357 and for all subsequent 400 and 500 level courses in Photography and Imaging. Students are recommended to have a computer for ART 253. Visit uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/) for more information.

Students who major in Photography and Imaging are required to have access to cameras. Please contact the Art & Design Department Photography and Imaging Area office at 414-229-3874 for an updated list of courses and the required camera equipment.

After admission into Photography and Imaging, students must:

1. complete 1-2 of the following 2 courses (3-6 credits): ART 357 and/or ART 358;
2. complete ART 452 with a grade of B- or better, in addition to completing 2-3 of the following 4 courses (6-9 credits): ART 451, ART 454, ART 456, and/or ART 458;
3. complete all 18 credits of the required 300 and 400 level PI courses with a cumulative 2.67 GPA in PI curriculum to enroll in ART 552;
4. complete ART 552 with a grade of B- or better to enroll in ART 553; and
5. complete ART 553.

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
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<tr>
<td>ART 350</td>
<td>Visualizing Ideas in Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 352</td>
<td>Contemporary Issues in Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 353</td>
<td>Studio Lighting &amp; Digital Imaging</td>
<td>3</td>
</tr>
<tr>
<td>ART 354</td>
<td>Medium and Large Format Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Intermediate Courses

Select one or both of the following: 3-6

- ART 357 Studio Lighting & Digital Imaging
- ART 358 Medium and Large Format Photography

Required Advanced Courses

Select two or three of the following: 6-9

- ART 451 Special Topics in Photography: (subtitle)
- ART 454 Narrative Photography
- ART 456 Advanced Digital Photography
- ART 458 Photographic Materials and Processes

Photography Capstone

- ART 552 Studio Practice and Research in Photography 3
- ART 553 Senior Project in Photography 3

Total Credits 27

1 Required Intermediate Courses and Required Advanced Courses must total 12 credits.

Art BFA – Sample Curriculum in Photography and Imaging

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

Spring

- ART 118 Digital Arts: Culture, Theory, Practice 3
- ART 109 3D Concepts 3
- ART 253 Introduction to Photography 3
| University Core 1 |                              | 3       |
| University Core 1 |                              | 3       |

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

Year 2

Fall

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Portfolio Review for students in Photography and Imaging is held in both the fall and spring semesters. Students must complete ART 253 and ART 350 to be eligible. Portfolio review guidelines are available from the area.

- ART 350 Visualizing Ideas in Photography 3

Select one of the following:

- ART 358 Medium and Large Format Photography 3

200-level Studio in Art

Select one of the following 200-level Studios in Art: 3

- ART 212 Introduction to Digital Studio: A/V Strategies
- ART 221 Introduction to Design
- ART 291 Introduction to Print and Narrative Forms
- ART 309 Issues in Contemporary Art: 3
- ARTHIST 101 Ancient and Medieval Art and Architecture 2 3
| University Core 1 |                              | 3       |

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
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</tbody>
</table>

Spring

Select one of the following: 3

- ART 357 Studio Lighting & Digital Imaging

200-level Studio in Art

- ART 452 Contemporary Issues in Photography 3
- Art & Design Elective 3
- Art & Design Elective 3
- ARTHIST 102 Renaissance to Modern Art and Architecture 2 3
| University Core 1 |                              | 3       |

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>18</td>
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</table>

Year 3

Fall

Select two of the following: 6

- ART 358 Medium and Large Format Photography
- ART 454 Narrative Photography
- ART 456 Advanced Digital Photography
- Art & Design Elective 3
- Art & Design Elective 3
- Advanced Art History choice 2 3
Admission

To be admitted into Photography and Imaging, students must pass the PI Portfolio Review. To be eligible for consideration, students must complete ART 253 and ART 350 with a B- or better, a cumulative GPA of 2.67 for all PI courses taken, and admission to Art & Design.

Grading Requirements

Prior to consideration for admission in the Photography and Imaging program, students must receive a B- or better in ART 350, with a cumulative 2.67 GPA in all PI courses. Subsequent to admission in the PI program, students must receive a letter grade of B- or better in ART 452 and ART 552. Should they fail to do so, students must retake the course and receive a B- or better in order to continue in the program. Any student receiving a second grade of less than B- in any area-required courses would need to formally reapply to the PI program or be dropped from the program. Additionally, students must maintain a cumulative GPA of 2.67 within all PI courses taken.

Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty:

1. Art & Design Portfolio form. Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ [http://uwm.edu/arts/apply/].)
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General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/art-and-design/ [http://uwm.edu/arts/art-and-design/].

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Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221,
and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.

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<tr>
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<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Location:** Theatre 120  
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/).

### Honors in the Major

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

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Dean’s Honors are granted to students with major achievements in one or more of the arts.

### Honors in the Peck School of the Arts

#### Dean’s Honor List

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

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

### Commencement Honors

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### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Art, BFA: Print and Narrative Forms

Our program explores both historical and contemporary applications of fine art printmaking. Students are encouraged to focus not only on the image itself, but also how it communicates in the context of its structure and presentation.

### Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (p. 149)</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Art &amp; Design Core (p. 149)</td>
<td>30</td>
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<tr>
<td>BFA Degree Requirements (p. 150)</td>
<td>31</td>
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<tr>
<td>Area of Concentration (p. 150)</td>
<td>24</td>
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<td><strong>Total Credits</strong></td>
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#### University Core

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>General Education Requirements 1</td>
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<tr>
<td>Competencies 1</td>
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<tr>
<td>English Parts A &amp; B 2</td>
<td></td>
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<td>Math Parts A &amp; B 2</td>
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<tr>
<td>Foreign Language 2</td>
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<td>Distribution Requirements 1</td>
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<tr>
<td>ARTHIST 101 Ancient and Medieval Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
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<tr>
<td>ARTHIST 102 Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
<td>3</td>
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<tr>
<td>Social Science</td>
<td>6</td>
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<tr>
<td>Natural Science (1 course with lab)</td>
<td>6</td>
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#### Electives

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Advanced ARTHIST course</td>
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</tr>
<tr>
<td>Select 3 arts areas outside Art and Design</td>
<td>9</td>
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<tr>
<td>Select 3 credits in an arts area</td>
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<tr>
<td>Select 9 credits outside Peck School of the Arts</td>
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</table>

1. Learn more about the General Education Requirements (p. 33).
2. Credit may be utilized in required curriculum areas.

### Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>First Year Program</td>
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<tr>
<td>ART 101 Drawing I</td>
<td>3</td>
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</table>

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1. Learn more about the General Education Requirements (p. 33).
2. Credit may be utilized in required curriculum areas.
ART 106 Art Survey 3
ART 108 2D Concepts 3
ART 109 3D Concepts 3
ART 118 Digital Arts: Culture, Theory, Practice 3
English Part A 1
Math Part A 1

200 Level Studio Electives 2
Select 3-6 credits of the following: 3-6
ART 201 Drawing II 3
ART 208 Color Studio
ART 212 Introduction to Digital Studio: A/V Strategies 4
ART 221 Introduction to Design 5
FILM 222 Introduction to Digital Filmmaking
ART 223 Introduction to Typography
ART 224 Dynamic Typography
ART 227 Design Workshop:
ART 238 Fiber Workshop:
ART 243 Introduction to Painting
ART 249 Painting and Drawing Workshop:
ART 253 Introduction to Photography 6
ART 269 Sculpture Workshop:
ART 277 Design for Digital Fabrication
ART 279 Jewelry and Metalsmithing Workshop:
ART 289 Ceramics Workshop:
ART 291 Introduction to Print and Narrative Forms
ART 299 Printmaking Workshop:

Select 3-6 credits of the following: 3-6
ART 231 Introduction to Fibers
ART 261 Introduction to Sculpture
ART 271 Introduction to Jewelry and Metalsmithing
ART 281 Introduction to Ceramics

Critical Thinking
ART 309 Issues in Contemporary Art: 3
ART 509 Art & Design Seminar: 3

Total Credits 30

1 Completed as part of University Core.
2 Complete 9 credits total, not applicable if fulfilled as part of degree curriculum.
3 Required for Painting and Drawing concentration.
4 Required for Digital Studio Practice concentration.
5 Required for Design and Visual Communication concentration.
6 Required for Photography and Imaging concentration.

Degree Requirements

Code Title Credits
Art & Design Electives
Select 27 credits (15 credits must be 300-level and above studio courses) 27

Print and Narrative Forms Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
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Print and Narrative Forms Introductory

<table>
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<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
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Print and Narrative Forms Core
Select six of the following: 18

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 337</td>
<td>Screen Printing on Fabric</td>
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</tr>
<tr>
<td>ART 350</td>
<td>Visualizing Ideas in Photography</td>
<td></td>
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<tr>
<td>ART 391</td>
<td>Intermediate Print &amp; Narrative Forms: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>ART 392</td>
<td>Lithography</td>
<td></td>
</tr>
<tr>
<td>ART 393</td>
<td>Digital Printmaking</td>
<td></td>
</tr>
<tr>
<td>ART 394</td>
<td>Intaglio</td>
<td></td>
</tr>
<tr>
<td>ART 397</td>
<td>Book Arts Workshop: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>ART 398</td>
<td>Photo Printmaking</td>
<td></td>
</tr>
<tr>
<td>ART 433</td>
<td>Digital Imaging for Fabric</td>
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<tr>
<td>ART 495</td>
<td>Advanced Printmaking: (subtitle)</td>
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<tr>
<td>ART 496</td>
<td>Sequence and Structure</td>
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<tr>
<td>ART 591</td>
<td>Portfolio in Print and Narrative Forms</td>
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Print and Narrative Forms Capstone

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ART 597</td>
<td>Senior Project in Print and Narrative Forms</td>
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Print and Narrative Forms – Sample Curriculum in Print and Narrative Forms

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Core 1</td>
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<td>3</td>
<td></td>
</tr>
<tr>
<td>University Core 1</td>
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</tr>
<tr>
<td>Credits</td>
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Spring

<table>
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<tr>
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<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
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</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 291</td>
<td>Introduction to Print and Narrative Forms</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>
Year 2

Fall

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year).

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ART 251</td>
<td>Introduction to Print and Narrative Forms</td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
</tr>
</tbody>
</table>

Art Elective: 3 credits

Select one of the following 200-level studios in Art:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231</td>
<td>Introduction to Fibers</td>
</tr>
<tr>
<td>ART 253</td>
<td>Lithography</td>
</tr>
<tr>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
</tr>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
</tr>
</tbody>
</table>

Art and Design Elective: 3 credits

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 281</td>
<td>Introduction to Ceramics</td>
</tr>
</tbody>
</table>

Art Elective: 3 credits

ART 230     | Issues in Contemporary Art:         |

ARTHIST 101 | Ancient and Medieval Art and Architecture |

University Core: 3 credits

Year 3

Fall

Select two of the following:

ART 391     | Intermediate Print & Narrative Forms (subtitle) |
ART 392     | Lithography                                  |
ART 393     | Intermediate Print & Narrative Forms:        |
ART 337     | Screen Printing on Fabric                   |

Art Elective: 3 credits

Art Elective: 3 credits

Advanced Art History choice: 3 credits

University Core: 3 credits

Year 4

Fall

ART 591     | Portfolio in Print and Narrative Forms (subtitle) |
ART 592     | Advanced Printmaking                     |

Art Elective: 3 credits

Art Elective: 3 credits

Art Elective: 3 credits

University Core: 3 credits

Spring

ART 595     | BFA Exhibition                          |
ART 597     | Senior Project in Print and Narrative Forms |

Art Elective: 3 credits

Art Elective: 3 credits

University Core: 3 credits

Credits

18

Credits

15

Credits

18

Credits

15

Credits

18

Credits

15

Credits

18

Credites

130

1 Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

2 Recommend ART 253.

3 The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

4 ART 350 recommended.

**Art & Design Undergraduate Admission Requirements**

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty.

1. Art & Design Portfolio form. Complete the form and send it in with the packet. ([Form is online at uwm.edu/arts/apply](http://uwm.edu/arts/apply).)

2. Portfolio of artworks. Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.

3. Statement of Intent. Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for [department-level scholarships](http://uwm.edu/arts/art-and-design), incoming freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/art-and-design/ (p. 12)

**Appeal Process**

An appeal process is established for students who do not meet the department’s criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.
Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher:

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
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<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, BFA: Sculpture

Our program focuses on instilling in every student the practical, hands-on knowledge of materials and fabrication techniques necessary to cross boundaries, invent processes, and explore innovative content in the areas of object-making, installation, performance, site-work, time-based art, and digital forms.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>University Core (p. 152)</td>
<td></td>
<td>45</td>
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<tr>
<td>Art &amp; Design Core (p. 153)</td>
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<tr>
<td>BFA Degree Requirements (p. 153)</td>
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<td>31</td>
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<td>Area of Concentration (p. 153)</td>
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<td>130</td>
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University Core

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>Foreign Language 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution Requirements 1</td>
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<tr>
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<td></td>
<td>3</td>
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<tr>
<td>ARTHIST 102 Renaissance to Modern Art and Architecture (counts as Humanities GER)</td>
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<td>3</td>
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</tbody>
</table>
Social Science 6
Natural Science (1 course with lab) 6
Cultural Diversity 2

**Electives**
- Advanced ARTHIST course 6
- Select 3 arts areas outside Art and Design 9
- Select 3 credits in an arts area 3
- Select 9 credits outside Peck School of the Arts 9

Total Credits 45

---

1. Learn more about the General Education Requirements (p. 33).
2. Credit may be utilized in required curriculum areas.

### Art & Design Core

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>ART 106 Art Survey</td>
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<tr>
<td>ART 108 2D Concepts</td>
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<td></td>
</tr>
<tr>
<td>ART 109 3D Concepts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 118 Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### English Part A

### Math Part A

**200 Level Studio Electives**

Select 3-6 credits of the following: 3-6

<table>
<thead>
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<th>Code</th>
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<th>Credits</th>
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<td>ART 201 Drawing II</td>
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<td>ART 212 Introduction to Digital Studio: A/V Strategies</td>
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<td>ART 221 Introduction to Design</td>
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<td>FILM 222 Introduction to Digital Filmmaking</td>
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<tr>
<td>ART 223 Introduction to Typography</td>
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<td></td>
</tr>
<tr>
<td>ART 224 Dynamic Typography</td>
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<tr>
<td>ART 227 Design Workshop:</td>
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<td></td>
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<tr>
<td>ART 238 Fiber Workshop:</td>
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<tr>
<td>ART 243 Introduction to Painting</td>
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<tr>
<td>ART 249 Painting and Drawing Workshop:</td>
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<tr>
<td>ART 253 Introduction to Photography</td>
<td>6</td>
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</tr>
<tr>
<td>ART 269 Sculpture Workshop:</td>
<td></td>
<td></td>
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<tr>
<td>ART 277 Design for Digital Fabrication</td>
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<td></td>
</tr>
<tr>
<td>ART 279 Jewelry and Metalsmithing Workshop:</td>
<td></td>
<td></td>
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<tr>
<td>ART 289 Ceramics Workshop:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 291 Introduction to Print and Narrative Forms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 299 Printmaking Workshop:</td>
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<td></td>
</tr>
</tbody>
</table>

Select 3-6 credits of the following: 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 231 Introduction to Fibers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 261 Introduction to Sculpture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 271 Introduction to Jewelry and Metalsmithing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 281 Introduction to Ceramics</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Critical Thinking

### Degree Requirements

**Code**

**Title**

**Credits**

### Art & Design Electives

Select 27 credits (15 credits must be 300-level and above studio courses) 27

### Senior Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 604 Professional Practices</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 605 BFA Exhibition</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 31

### Sculpture Concentration

**Code**

**Title**

**Credits**

### Sculpture Introductory

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 261 Introduction to Sculpture</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Sculpture Required Core

**Part 1**

Select 6-12 credits of the following (retakable with change of topic): 6-12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 269 Sculpture Workshop: (subtitle)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 368 Sculptural Practices: (subtitle)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 369 Sculpture Workshop: (subtitle)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Part 2**

Select 6-12 credits of the following (retakable with change of topic): 6-12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 468 Advanced Sculptural Practices: (subtitle)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 469 Sculpture Workshop: (subtitle)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Sculpture Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 567 Senior Project in Sculpture</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 24

1. Part 1 and Part 2 should equal 18 credits combined.

### Art BFA – Sample Curriculum in Sculpture

#### Year 1

**Fall**

(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101 Drawing I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 106 Art Survey</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 109 2D Concepts</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
### Art, BFA: Sculpture

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall</th>
<th>Students are reminded that admission to the Art &amp; Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Select one of the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
</tr>
<tr>
<td></td>
<td>200-level studio in Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td>University Core 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>University Core 1</td>
<td></td>
</tr>
</tbody>
</table>

| Credits | 15 |

### Year 3 | Fall | Select one of the following: |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
</tr>
<tr>
<td></td>
<td>200-level studio in Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td>200-level studio in Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
</tr>
<tr>
<td></td>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture 2</td>
</tr>
<tr>
<td></td>
<td>University Core 1</td>
<td></td>
</tr>
</tbody>
</table>

| Credits | 18 |

### Year 4 | Fall | Select one of the following: |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ART 261</td>
<td>Introduction to Sculpture</td>
</tr>
<tr>
<td></td>
<td>200-level studio in Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td>200-level studio in Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 309</td>
<td>Issues in Contemporary Art: (Visiting Artist Lecture Series)</td>
</tr>
<tr>
<td></td>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture 2</td>
</tr>
<tr>
<td></td>
<td>University Core 1</td>
<td></td>
</tr>
</tbody>
</table>

| Credits | 18 |

### Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 12). Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty.

1. **Art & Design Portfolio form.** Complete the form and send it in with the packet. (Form is online at uwm.edu/arts/apply/ (http://uwm.edu/arts/apply/).

2. **Portfolio of artworks.** Provide 8-10 examples of artwork you created in the past two years. If your portfolio includes drawings, we recommend that you include at least three drawings from observation (not photographs). Identify each image by media, size, and year of completion in a separate document. JPEG files at 2000px max preferred.

3. **Statement of Intent.** Upload a one-page pdf that describes how your interests and past experiences relate to your intended college choice and career path. Students who have little to no prior formal art training are encouraged to write a more extensive statement.

Art & Design awards art scholarships based on this incoming portfolio. To be eligible for **department-level scholarships**, incoming freshmen & transfers must complete the requirements above by December 15. Portfolios will be accepted after this date for general admission to the department.

General information: 414-229-4763; art-admission@uwm.edu; uwm.edu/arts/apply.

### Appeal Process

An appeal process is established for students who do not meet the department’s criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department’s enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.
Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the following: 36 credits outlined below with a cumulative GPA of 2.5 or higher.

1. Complete First Year Program courses (15 credits; see course list below)
2. Oral and Written Communications Competency Part A (OWC-A);
3. Quantitative Literacy Competency Part A (QL-A);
4. A cumulative GPA of 2.5 or higher
5. Complete 9 credits required 200-level studios (see course list below).
6. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
7. Students should complete the above to advance to major within the first 45 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Peck School of the Arts

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Art, MA: Design Entrepreneurship and Innovation

The Art & Design department is currently not accepting applications to the Art MA: Design Entrepreneurship and Innovation program.

The Department of Art and Design offers graduate programs of study in art and design, and art education. The Master of Arts in Art is a 30-credit program with two areas of specialization: Studio Art and Design Entrepreneurship + Innovation.

Full-time students normally complete the MA degree within 4 semesters.

The Department’s facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.

The Peck School of the Arts’ Kenilworth Square East (KSE) Gallery provides a year-round schedule of exhibitions, with galleries that are housed in the Kenilworth Square East building, a research facility approximately one mile from campus. The Department of Art and Design offers a schedule of workshops and special lectures each year. In addition, graduate student studios are located in the Kenilworth Square East building.

Frederick R. Layton Fellowships are awarded each year to incoming and continuing graduate students, depending on funding. Information and application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/.

A limited number of Teaching Assistantships and Project Assistantships are offered through the Department of Art and Design. Information and application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/.
Students applying for admission to the three graduate programs in Art and Design, should note these application deadlines:

Application deadlines
For Fall admission to the MA and MFA graduate programs in Art, the Graduate School recommends completing the online application one year in advance of intended enrollment (check [http://uwm.edu/arts/art-and-design/graduate/](http://uwm.edu/arts/art-and-design/graduate/)) for more specific information, with portfolios and letters of recommendation uploaded to the Panthera Graduate Admission Application ([https://graduateschool-apply.uwm.edu](https://graduateschool-apply.uwm.edu)) page by February 1.

If applying for university fellowships, the application is due by December 10. Applications are accepted for Fall admission only.

Admission Requirements
The Master of Arts in Art: Specialization in Design Entrepreneurship + Innovation is a 30-credit program wherein students will merge design thinking, innovation, theory and contemporary design practice to develop design solutions that affect positive social, economic and technological change.

Application Deadlines
If at any time you are unsure about a published date or deadline ([http://uwm.edu/graduateschool/program-deadlines](http://uwm.edu/graduateschool/program-deadlines)), call the Registrar’s Office at (414) 229-3800 or submit a contact form ([http://uwm.edu/registrar/contact-us](http://uwm.edu/registrar/contact-us)) online.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major or minor in art or design, or related field, or a body of work that demonstrates professional or research interest in design thinking and/or making.
2. Submission of a digital portfolio with 20 images of original work or other examples of design making, design thinking or design research.
3. Submission of a brief description of each work sample included in the digital portfolio.
4. Submission of a written personal statement of the proposed program of study.
5. Three (3) letters of recommendation.

See the department’s website for more details, including required file formats and submission process for application materials.

Applicants may be admitted to the program with specific program-defined course deficiencies. The student is expected to satisfy deficiency requirements within three enrolled semesters. The Office of Graduate Studies in the Department of Art and Design monitors the deficiencies. Deficiency course credits may not be applied towards the degree.

Credits and Courses
Minimum degree requirement is 30 graduate credits. At least 18 credits must be taken in Art and Design and at least 6 credits must be taken in Complementary Studies outside of Art and Design. Consult the Department of Art and Design Office of Graduate Studies for a list of approved courses in Complementary Studies.

All graduate students in the Department of Art and Design must be enrolled full-time for at least one semester, earning a minimum of 8 credits during that semester. Graduate students with a PA or TA appointment are considered full-time earning a minimum of 6 credits per semester.

Program Requirements
Advising
Upon admission, the Director of Graduate Studies in the Department of Art and Design in consultation with the Graduate Faculty will assign the incoming graduate student to a First Year Advisory Team. The head Advisor will contact the student and the Advisory Team at the beginning of the student's first semester to arrange a schedule for meetings to discuss course enrollment and the first year studio research agenda.

By the end of the student's second semester in the program, the student must select a Major Professor, and in consultation with the Major Professor, assemble his or her Graduate Thesis Committee. The committee consists of three or more members (usually not larger than four). At least three members must be graduate faculty, and at least two must be from the Department of Art & Design. At least one member of the committee must be a faculty member in the student's area of focus. If a student desires, the fourth member of the committee may be from outside the university. The student's Major Professor will serve as the Chair of the student's Graduate Thesis Committee.

A student who wishes to change his/her designated MA specialization must first apply and be accepted into the specialization. The student would make this decision in consultation with his or her Thesis Committee and the Director of Graduate Studies. If the student is accepted into the specialization, he or she will assemble a new Thesis Committee and select a new Major Professor, if necessary.

If the student's major professor takes a leave of absence or leaves the University, the student should contact the Director of Graduate Studies in the Department of Art and Design for advice in selecting a new major professor, and notify the Director of subsequent changes to the student's committee.

Transfer of Credits
Upon admission, an applicant may be permitted to transfer a maximum of 12 graduate credits earned at another institution. However, the student must apply to the Graduate School for an evaluation of such credits to determine if they are acceptable for transfer to the MA program.

Graduate Review
Each year, the student must participate in at least one Graduate Review.

MA Thesis
Upon recommendation of the Graduate Thesis Committee, the student will complete a MA Thesis project and presentation of the work executed during the student's graduate studies. The MA Thesis may be a gallery exhibition, public performance, pitch session, or another form appropriate to the student's research, and must be approved by the student's Major Professor.

Comprehensive Examination
The student must pass a final oral and written examination.

Time Limit
The UWM Graduate School requires that students complete all degree requirements within five years of initial enrollment.
Art, MA: Studio Art

The Department of Art and Design offers graduate programs of study in art and design, and art education. The Master of Arts in Art is a 30-credit program with two areas of specialization: Studio Art and Design Entrepreneurship + Innovation.

Full-time students normally complete the MA degree within 4 semesters.

The Department’s facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.

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A limited number of Teaching Assistantships and Project Assistantships are offered through the Department of Art and Design. Information and application forms may be obtained at: http://uwm.edu/arts/art-and-design/graduate/.

Students applying for admission to the three graduate programs in Art and Design, should note these application deadlines:

Application deadlines

For Fall admission to the MA and MFA graduate programs in Art, the Graduate School recommends completing the online application one year in advance of intended enrollment (check http://uwm.edu/arts/art-and-design/graduate/ for more specific information) with portfolios and letters of recommendation uploaded to the Panthera Graduate Admission Application (https://graduateschool-apply.uwm.edu) page by February 1. If applying for university fellowships, the application is due by December 10. Applications are accepted for Fall admission only.

Requirements

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in art, or related field, including at least 40 studio credits and at least 45 academic credits outside the major.
2. Submission of a digital portfolio with 20 images of original work.
3. Submission of a written personal statement of the proposed program of study.
4. Three (3) letters of recommendation.

See the department’s website for more details, including required file formats and submission process for application materials.

Applicants may be admitted to the program with specific program-defined course deficiencies. The student is expected to satisfy deficiency requirements within three enrolled semesters. The Office of Graduate Studies in the Department of Art and Design monitors the deficiencies. Deficiency course credits may not be applied towards the degree.

Credits and Courses

Minimum degree requirement is 30 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 901</td>
<td>Seminar in Art-Philosophy and Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 3 additional graduate credits in art seminars</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 18 graduate credits in studio arts</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Select 3 graduate credits in art history</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits in graduate-level coursework in a discipline related to the student’s research interests</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 30

All graduate students in the Department of Art and Design must be enrolled full-time for at least one semester, earning a minimum of 8 credits during that semester. Graduate students with a PA or TA appointment are considered full-time earning a minimum of 6 credits per semester.

Program Requirements

Advising

Upon admission, the Director of Graduate Studies in the Department of Art & Design, in consultation with the Graduate Faculty, will assign the incoming graduate student to a First Year Advisory Team. The head Advisor will contact the student and the Advisory Team at the beginning of the student’s first semester to arrange a schedule for meetings to discuss course enrollment and the first year studio research agenda.

By the end of the student’s second semester in the program, the student must select a Major Professor, and in consultation with the Major Professor, assemble his or her Graduate Thesis Committee. The committee consists of three or more members (usually not larger than four). At least three members must be graduate faculty, and at least two must be from the Department of Art & Design. At least one member of the committee must be a faculty member in the student’s area of focus. If a student desires, the fourth member of the committee may be from outside the university. The student’s Major Professor will serve as the Chair of the student’s Graduate Thesis Committee.

A student who wishes to change his/her designated area of focus must first apply and be accepted into the new focus. The student would make this decision in consultation with his or her Thesis Committee and the Director of Graduate Studies. If the student is accepted into the new area...
Application deadlines

For Fall admission to the MA and MFA graduate programs in Art, the Graduate School recommends completing the online application one year in advance of intended enrollment (check http://uwm.edu/arts/art-and-design/graduate/ for more specific information) with portfolios and letters of recommendation uploaded to the Panthera Graduate Admission Application (https://graduateschool.apply.uwm.edu) page by February 1. If applying for university fellowships, the application is due by December 10. Applications are accepted for Fall admission only.

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Application Deadlines

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Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in art, or a related field, including at least 40 studio credits and at least 45 academic credits outside the major.
2. Submission of a digital portfolio with 20 images of original work.
3. Submission of a written personal statement of the proposed program of study.
4. Three (3) letters of recommendation.

See the department’s website for more details, including required file formats and submission process for application materials.

At the completion of 30 graduate credits (minimum 18 credits studio art, 3 credits Art History, 3 credits of graduate-level coursework in a discipline related to the student’s research interests, and 6 credits graduate art seminar), the MFA candidate is required to complete a mid-program review. The mid-program review consists of a written reflection on the first 30 credits of study in the program, a plan of action for the final 30 credits and MFA Thesis Exhibition, and a presentation (to the student’s Thesis Committee) of a body of work completed during the first 30 credits. After the Thesis Committee approves this mid-program review, the student may proceed to the final 30 graduate credits, MFA Thesis and oral and written qualifying examinations.

If the applicant already holds the Master of Science or Master of Arts degree, the applicant must submit graduate transcripts in addition to the digital portfolio, personal statement, and three letters of recommendation. If the MS or MA degree is approved by the UWM Graduate School and the Director of Graduate Studies in the Department of Art and Design (in consultation with the Graduate Faculty), the MFA candidate will complete 30 credits toward the MFA degree.

Applicants may be admitted to the program with specific program-defined course deficiencies.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The Office of Graduate Studies in the Department of Art and Design monitor the deficiencies. Deficiency course credits may not be applied towards the degree.

Transfer of Credits

Upon admission, an applicant may be permitted to transfer a maximum of 12 graduate credits earned at another institution. However, the student must apply to the Graduate School for an evaluation of such credits to determine if they are acceptable for transfer to the M.A. program.

Graduate Review

Each year, the student must participate in at least one Graduate Review.

Thesis Exhibition

Upon recommendation of the Graduate Thesis Committee, the student presents a thesis exhibition or presentation of work centering on the student’s area of focus and executed during graduate studies.

Comprehensive Examination

The student must pass a final oral and written examination.

Time Limit

The UWM Graduate School requires that students complete all degree requirements within five years of initial enrollment.

Art, MFA

The Department of Art and Design offers graduate programs of study in art and design, and art education. The Master of Arts in Art is a 30-credit program with two areas of specialization: Studio Art and Design Entrepreneurship + Innovation.

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Students applying for admission to the three graduate programs in Art and Design, should note these application deadlines:

Application deadlines
Credits and Courses
Minimum degree requirement is 60 graduate credits for MFA candidates who do not hold an MA or MS degree. Sixty-credit degree candidates plan a program of studies that includes the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 36-42 credits in studio art</td>
<td>36-42</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits in Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 901</td>
<td>Seminar in Art-Philosophy and Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 6 additional credits in graduate art seminar</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6-12 credits in graduate-level coursework in a discipline related to the student's research interests</td>
<td>6-12</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>60</td>
</tr>
</tbody>
</table>

MFA Candidates Holding Previous MA or MS Degrees
Minimum degree requirements for MFA candidates holding a previous MA or MS degree is 30 graduate credits. 30-credit degree candidates plan a program of studies that includes the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits in a graduate art seminar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 18 to 24 credits in studio art</td>
<td>18-24</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits in a graduate-level course in a discipline related to the student's research interests</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 0 – 6 credits in areas related to student’s research interests</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

All graduate students must be enrolled full-time for at least one semester, earning a minimum of 8 credits during that semester. Graduate students with a PA or TA appointment are considered full-time earning a minimum of 6 credits per semester.

Program Requirements
Advising
Upon admission, the Director of Graduate Studies in the Department of Art and Design in consultation with the Graduate Faculty will assign the incoming graduate student to a First Year Advisory Team. The head Advisor will contact the student and the Advisory Team at the beginning of the student’s first semester to arrange a schedule for meetings to discuss course enrollment and the first year studio research agenda.

By the end of the student’s second semester in the program, the student must select a Major Professor, and in consultation with the Major Professor, assemble his or her Graduate Thesis Committee. The committee consists of three or more members (usually not larger than four). At least three members must be UWM graduate faculty, and at least two must be from the Department of Art & Design. At least one member of the committee must be a faculty member in the student’s area of focus. If a student desires, the fourth member of the committee may be from outside the university. The student’s Major Professor will serve as the Chair of the student’s Graduate Thesis Committee.

A student who wishes to change his/her designated area of focus must first apply and be accepted into the new focus. The student would make this decision in consultation with his or her Thesis Committee and the Director of Graduate Studies in the Department of Art and Design. If the student is accepted into the new area of focus, he or she will assemble a new Thesis Committee and select a new Major Professor, if necessary.

If the student’s Major Professor takes a leave of absence or leaves the University, the student should contact the Director of Graduate Studies in the Department of Art and Design for advice in selecting a new Major Professor, and notify the Director of subsequent changes to the student’s committee.

Transfer of Credits
Upon admission, an applicant may be permitted to transfer a maximum of 12 graduate credits earned at another institution. However, the student must apply to the Graduate School for an evaluation of such credits to determine if they are acceptable for transfer to the MFA program.

Graduate Review
MFA candidates must participate in at least one Graduate Review each academic year.

Thesis Exhibition
Upon recommendation of the major professor the student presents a thesis exhibition of work executed since admission to the program. The exhibition is held during the semester in which the student completes the coursework for the degree.

Comprehensive Examination
The student must pass a final oral and written examination.

Time Limit
The UWM Graduate School requires that the student complete all degree requirements within a specific time limit. A student in the 60-credit MFA program must complete all degree requirements within seven years. A student in the 30-credit MFA program must complete all degree requirements within five years.

Arts Integration and Learning, Undergraduate Certificate (Peck School of the Arts)
The Certificate in Arts Integration and Learning is a 15 credit, multidisciplinary program offered jointly by the Department of Art and Design in the Peck School of the Arts and the Department of Curriculum & Instruction in the School of Education.

This program is designed to give undergraduate and post baccalaureate students an understanding of best practices in arts integration with an emphasis on project based learning through students’ capstone experience. The Certificate is for students in any teacher certification program at the University of Wisconsin-Milwaukee, but especially for Early Childhood Education; Middle Childhood/Early Adolescence Education; Art, Music, Dance, or Theatre Education students who wish to complement their major with an additional concentration in Arts Integration.

The Certificate in Arts Integration and Learning is also open to all students seeking a Bachelor’s degree or post baccalaureate certification from UWM and to students who previously received a Bachelor’s degree with teacher certification from UWM or any other accredited college or university. Additionally, the Certificate is open to non-degree students who have a strong interest in this area. Students completing the Certificate not in conjunction with a degree must be admitted to the University as non-degree students and meet regular university admission
requirements. Students completing the Certificate not in conjunction with a degree are not eligible for financial aid.

## Requirements

Students must achieve a grade point average of 2.5 or above in all courses counting towards the Certificate. Courses counting for the Certificate may not be taken on a credit/no credit basis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Teaching and Learning Course</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td><strong>Capstone</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Teaching and Learning Course</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td><strong>Capstone</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

### Core

Choose one of the following:

- ART ED 227 Introduction to Art Education
- Currins 538 Literacy 3: Introduction to New Literacies
- Currins 545 Reading in the Content Areas: Middle, Junior, and Senior High School
- Currins 651 Literature for the Young Child

### Electives

- ART 150 Multicultural America
- ART 306 Introduction to Community Art
- ART 402 Art and Design Workshop
- ART ED 130 Multicultural Art and Visual Learning in Elementary Education
- ART ED 228 Learning Processes in Art Education
- Currins 400 Field Work in Curriculum and Instruction:
- Currins 547 Curricular Applications of the Internet
- Currins 579 Current Topics in Curriculum and Instruction:
- Dance 219 Arts in Community Service
- Dance 233 Improvisation for Dancemaking
- Dance 420 Creating Dance in the Community
- Dance 460 Teaching Dance in Community Settings
- Film 150 Multicultural America
- Mus Ed 260 Making Music Connections with Children
- Theatre 111 Theatre Games
- Theatre 204 Theatre and Social Change
- Theatre 260 Storytelling
- Theatre 320 Arts and Social Entrepreneurship
- Theatre 448 How to be a Teaching Artist

### Capstone Course

- ART ED 489 Art Education Workshop:
- or Currins 500 Workshop in Curriculum and Instruction:

**Total Credits** 15

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**Location:** Theatre 120  
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)

### Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

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### Community Arts, Undergraduate Certificate

Coordinators: Raoul Deal, Senior Lecturer in the Department of Art and Design, and the Undergraduate Advisor for the Department of Art and Design.

The Certificate in Community Arts is open to all students seeking a Bachelor’s degree from UWM, to students who previously received a Bachelor’s degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in this subject area. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements.

Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

The certificate is designed to give students an opportunity to explore art in community settings. It is geared towards those interested in social engagement, environmental issues, community building, public art, and placemaking. Most certificate courses highlight art practices that integrate collaborative processes and social cooperation. Certificate students will also benefit from a minimum of three service-learning experiences. They will be prepared to work as artists in grassroots organizations, community institutions, non-profit arts organizations, and educational institutions.

Interested students should contact the program coordinator as soon as they decide to pursue the Community Arts Certificate. The coordinator’s function is to help the student design a program of study from among the available courses and to guide the student in completing that program in sequence.

### Requirements

Students enrolling in the Community Arts Certificate Program are required to earn a minimum of 18 credits. The required credits are organized to be taken sequentially, and range from 200-level courses to 400-level courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.5 or above in all courses counting toward the certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 101 Drawing I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART 108 2D Concepts</td>
<td></td>
</tr>
</tbody>
</table>
This certificate is designed to give students an understanding of the software environments, materials, and equipment used in 2D and 3D digital fabrication excluding architectural scale. The certificate is for students in any major at the University of Wisconsin-Milwaukee, but specifically for Art & Design students who wish to complement their major with an additional concentration in Digital Fabrication.

Interested students should contact the program coordinator as soon as they decide to pursue the Digital Fabrication and Design Certificate. The coordinator’s function is to help the student design a program of study from among the available courses and to guide the student in completing that program.

Requirements

Students enrolling in the Digital Fabrication and Design Certificate Program are required to earn a minimum of 18 credits. The required credits are organized to be taken sequentially, and range from 200-level courses to 500-level courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.5 or above in all courses counting toward the certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 277</td>
<td>Design for Digital Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 278</td>
<td>Introduction to Industrial Craft</td>
<td>3</td>
</tr>
<tr>
<td>ART 378</td>
<td>Industrial Processes and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ART 478</td>
<td>Digital Fabrication and Craft</td>
<td>3</td>
</tr>
<tr>
<td>ART 526</td>
<td>Research in Universal Design and Fabrication (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 578</td>
<td>Research in Digital Fabrication and Craft (subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to approval by the Certificate Program Committee.

Location: Theatre 120

Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays
(closed on university holidays)

Contact: (414) 229-4763

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Digital Fabrication and Design, Undergraduate Certificate

Coordinator: Yevgeniya Kaganovich
Undergraduate Advisor, Department of Art and Design: Leah Schreiber-Johnson

The Certificate in Digital Fabrication and Design is open to all students seeking a bachelor’s degree from UWM, to students who previously received a Bachelor’s degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in this subject area. To be admitted to the University as non-degree students, individuals must meet regular university admission requirements (p. 12).

Students completing the certificate not in conjunction with a degree are not eligible for financial aid.
The Department of Dance offers two undergraduate degree programs that lead to a bachelor's degree in dance: the Bachelor of Fine Arts in Dance (Performance and Choreography/Contemporary), the Bachelor of Arts (BA) in Dance. Also available is a minor in Somatics and a minor in Dance Performance. Finally, the Department of Dance also offers a Master in Fine Arts (MFA) in Dance.

**Dance Program Mission Statement and Program Descriptions**

The Department of Dance at UWM is committed to the development and training of skillful and vibrant dance artists and educators in their pursuit of a comprehensive education built upon diverse dance practices, research, and community engagement. Our department supports a thriving local and regional presence, while it opens avenues and opportunities for national and global perspectives. We offer undergraduate and graduate programs that emphasize artistic individuality and the development of the professional skills required for successful careers in dance performance, choreography, and education. Our innovative curriculum integrates multiple dance disciplines and somatic practices, creating a learning environment that prioritizes a balance of body and mind knowledge with informed, creative expression.

Our training environment consists of full-time faculty, lecturers, and guest artists who reflect strong beliefs in multiple points of view, a passionate commitment to individual development, and dedication to serving the versatile interests of our students. Renowned guest artists contribute to the dance department's curriculum each semester by providing students direct experience with current and diverse global practices in the field. These programs ensure that we offer our students directed, relevant training as the foundation for successful and sustainable careers in dance and related fields.

The creative research of both the faculty and students reflects our commitment to investigate the historical and cultural relevance of contemporary and traditional world dance forms. These pursuits ensure that we examine and support the vibrancy of cultural traditions while generating new knowledge. Intertwining creativity, scholarship, and interdisciplinary dialogue, our program is dedicated to the exploration and development of somatic inquiry, technology integration, critical thought, and original choreography.

**Programs**

- Dance Performance, Minor (p. 171)
- Dance, BA (p. 172)
- Dance, BFA (p. 175)
- Dance, MFA (p. 178)
- Somatics, Minor (p. 179)

**Scholarships**

The Dance Department distributes around $15-20,000 in scholarships and awards to undergraduate students each year, ranging from $400-2000 per year (amount split over fall/spring semesters, summer available upon request). Students may be awarded multiple awards over their time in the Dance Program. uwm.edu/arts/scholarships/ (http://uwm.edu/arts/scholarships)

1. **Incoming Student Award:** no application required; award is faculty-nominated based on the student’s entrance audition for admission to the program. Scholarships may not be available after the UWM priority application deadline (March 1). Award may be for one year only, or for up to four years, as long as the student continues to meet the stated requirements.

2. **Dance Undergraduate Student Scholarship:** application required, and students must have completed at least one semester of the Dance Program. Demonstrated excellence in the Dance Major is the main criteria.

3. **Ed Burgess Legacy Scholarship:** no application required; award is faculty-nominated for a student who will have junior or senior status who embodies and demonstrates the highest qualities of commitment and professional dedication to the art of dance, and has an established record of excellence in all aspects of the program. Award is for one year only, and student must have completed at least 2 semesters in the Dance Program, and be attending full-time during the award semesters.

To be eligible for any Dance Scholarship (available to Dance majors only), students must meet the following criteria:

- Full-time enrollment (6 or more Dance credits each semester)
- Dance GPA of 3.5 or above
- Adherence to departmental curricular requirements
- Students who do not meet these criteria for all semesters of their award may forfeit all or part of their scholarship.

**Dance Courses**

**DANCE 103 Introduction to Iyengar Yoga**

2-3 cr. Undergraduate.

Iyengar Yoga method and philosophy presented in a format to enrich artistic appreciation of Yoga as a physical artform.

**Prerequisites:** none.

**Course Rules:** May be retaken to max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr.

**General Education Requirements:** A

**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.

**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**DANCE 110 Introduction to the Art of Dance**

3 cr. Undergraduate.

Basic technique, implementation, short compositions, lectures, films and discussions on dance history, philosophy, theory, and survey of current trends.

**Prerequisites:** none.

**Course Rules:** May be retaken to a max of 2 sem.

**General Education Requirements:** A

**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.

**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
DANCE 111 Ballet I
2-3 cr. Undergraduate.
This beginning level class introduces ballet principles for those with little or no previous studio training. Alignment, verticality, and basic ballet movements are stressed.
Prerequisites: none.
Course Rules: May be retaken to a max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 112 Contemporary Dance Practice: Ballet Tradition II
2-3 cr. Undergraduate.
A continuation of Dance 111.
Prerequisites: Dance 111(P) or Dance major.
Course Rules: May be retaken to max of 3 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 113 Modern Dance Technique I
2-3 cr. Undergraduate.
Introduction to basic elements and principles of modern dance. Anatomically correct use of body, moving with awareness, and use of varied movement qualities are stressed.
Prerequisites: none.
Course Rules: Dance majors register for 2 cr. Non-majors register for 3 cr. May be retaken to max of 9 cr.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 114 Contemporary Dance Practice: Modern Tradition II
2-3 cr. Undergraduate.
Continuation of Dance 113.
Prerequisites: Dance major or Dance 113(P).
Course Rules: May be retaken to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

DANCE 115 Jazz Dance I
1-3 cr. Undergraduate.
Basics of percussive and lyrical jazz styles.
Prerequisites: none.
Course Rules: May be retaken to a max of 3 sem.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 116 Jazz Dance II
1-3 cr. Undergraduate.
A continuation of Dance 115.
Prerequisites: Dance 115(P) or cons instr.
Course Rules: May be retaken to max of 3 sem.
Current Offerings: http://uwm.edu/schedule

DANCE 117 Tap I
1-3 cr. Undergraduate.
The basics of tap dancing designed to instill rhythm and a sense of style.
Prerequisites: none.
Course Rules: May be retaken to max of 2 sem.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

DANCE 122 African Dance & Diaspora Technique I
2-3 cr. Undergraduate.
Philosophical and applied foundations of African-American dance. Aesthetics, style, musical accompaniment, the role of dance as expression of socio-cultural experience. Emphasis on movement.
Prerequisites: none.
Course Rules: May be retaken to max of 3 sem.
General Education Requirements: CD, A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 123 African Dance & Diaspora Technique II
2-3 cr. Undergraduate.
A continuation of Dance 122.
Prerequisites: Dance 122(P) or cons instr.
Course Rules: May be retaken to max of 3 sem.
Current Offerings: http://uwm.edu/schedule

DANCE 133 Creative Movement I
2-3 cr. Undergraduate.
A class to develop the creative potential of each student in rhythm and movement.
Prerequisites: none.
Course Rules: May be retaken to max of 9 cr. Dance BFA majors enroll in for 2 cr. Dance BA majors and non-majors enroll for 3 cr.
General Education Requirements: A
Last Taught: Fall 2014, Fall 2013, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

DANCE 135 Introduction to Dancemaking Skills
3 cr. Undergraduate.
A broad introduction to contemporary dancemaking choreographic and improvisational skills.
Prerequisites: Dance major.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

DANCE 192 Freshmen Seminar
1 cr. Undergraduate.
Seminar to orient Dance majors to UWM, PSOA, Dance Department, Milwaukee dance community, and successful life as a dancer.
Prerequisites: Dance major.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

DANCE 209 Dance Production
2 cr. Undergraduate.
Introduction to dance production theory, design and practical skills.
Prerequisites: Dance major or cons instr.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
DANCE 211 Contemporary Dance Practice: Ballet Tradition III
2-3 cr. Undergraduate.
A continuation of Dance 112.
Prerequisites: Dance 112(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 212 Contemporary Dance Practice: Ballet Tradition IV
2-3 cr. Undergraduate.
A continuation of Dance 211.
Prerequisites: Dance 211(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

DANCE 213 Contemporary Dance Practice: Modern Tradition III
2-3 cr. Undergraduate.
Continuation of Dance 114.
Prerequisites: Dance 114(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 214 Contemporary Dance Practice: Modern Tradition IV
2-3 cr. Undergraduate.
A continuation of Dance 213.
Prerequisites: Dance 213(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 217 Tap II
2-3 cr. Undergraduate.
Continued exploration of tap dance technique. Study of complex rhythmic combinations and movements.
Prerequisites: Dance 117 (P) or cons instr.
Course Rules: May be retaken to a max of 3 sem.
Current Offerings: http://uwm.edu/schedule

DANCE 219 Arts in Community Service
3 cr. Undergraduate.
Students acquire means to assess personal learning and techniques to assess impact of their service-learning work on community partner organizations. Prereq for regis in service-learning component of a dance course.
Prerequisites: none.
Last Taught: Spring 2017, Spring 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

DANCE 220 Body Sense
3 cr. Undergraduate.
This course intends to provide an environment for creative exploration of individual body awareness, integration of body-mind and experiencing the body in space.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

DANCE 221 Body Sense II
2-3 cr. Undergraduate.
Movement exercises from varied theories; intensified self-observation and documentation of experience. Stress on intrapersonal, interpersonal, emotional, and existential intelligences.
Prerequisites: Dance 220(P).
Course Rules: May be retaken to max of 2 sem.
Last Taught: Spring 2007.
Current Offerings: http://uwm.edu/schedule

DANCE 222 African Dance & Diaspora Technique III
2-3 cr. Undergraduate.
A continuation of Dance 123.
Prerequisites: Dance 123(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 223 African Dance & Diaspora Technique IV
2-3 cr. Undergraduate.
A continuation of Dance 222.
Prerequisites: Dance 222(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 231 Music and Dancers I
3 cr. Undergraduate.
Beginning study of the relationship between dance and music. Emphasis on musical awareness, development of listening skills and the application of such skills to movement experiences.
Prerequisites: Dance or Inter-Arts major or cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 233 Improvisation for Dancemaking
3 cr. Undergraduate.
A structured exploration of movement invention process, and structuring movement sequences through use of movement games and systems.
Prerequisites: Dance major or cons instr.
Course Rules: May be retaken to max of 2 sem.
Current Offerings: http://uwm.edu/schedule

DANCE 250 Sophomore Seminar
0 cr. Undergraduate.
Discussion of topics for 2nd year Dance majors.
Prerequisites: Dance 192(C).
Course Rules: Fee for 1 cr assessed.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

DANCE 251 Laban Movement Analysis I
3 cr. Undergraduate.
Exploration of the dynamics of movement, including space/time weight flow combinations, the body's approach to space, basic spatial forms (dimensional cross, planes, cube, tetrahedron), introduction to phrase writing.
Prerequisites: successful completion of QL-A.
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
DANCE 261 Junior Seminar
0 cr. Undergraduate.
Discussion of topics for 3rd year Dance majors.
Prerequisites: Dance 250(C).
Course Rules: Fee for 1 cr assessed.
Last Taught: Spring 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

DANCE 309 Dance Production Practicum
1 cr. Undergraduate.
Dance 309 is a continuation of Dance 209 focusing on the application of an array of production skills.
Prerequisites: Dance 209(P) or cons instr.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

DANCE 310 Jazz III
2-3 cr. Undergraduate.
Continued study of jazz dance vocabulary and movement concepts.
Prerequisites: Dance 116 (P) or cons instr.
Course Rules: May be retaken to a max of 3 sem.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

DANCE 311 Contemporary Dance Practice: Ballet Tradition V
3 cr. Undergraduate.
Continuation of Dance 212.
Prerequisites: Dance 212(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 312 Contemporary Dance Practice: Ballet Tradition VI
3 cr. Undergraduate.
Continuation of Dance 311.
Prerequisites: Dance 311(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 313 History of Dance in the African Diaspora
3 cr. Undergraduate.
The dance traditions of Africa and the Diaspora.
Prerequisites: successful completion of OWC-A
General Education Requirements: OWCB
Last Taught: Fall 2012, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

DANCE 314 Contemporary Dance History
3 cr. Undergraduate.
Developments in modern dance from 1890's to the present with emphasis on comparative philosophies.
Prerequisites: successful completion of OWC-A
General Education Requirements: OWCB
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

DANCE 315 History of the American Musical Theater
3 cr. Undergraduate.
Introduction to the origins, development and evolution of the American musical theater.
Prerequisites: successful completion of OWC-A.
General Education Requirements: A, OWCB
Last Taught: Fall 2014, Fall 2011, Fall 2008, Spring 2006.
Current Offerings: http://uwm.edu/schedule

DANCE 317 Contemporary Dance Practice: Modern Tradition V
3 cr. Undergraduate.
Continuation of Dance 214.
Prerequisites: Dance 214(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 318 Contemporary Dance Practice: Modern Tradition VI
3 cr. Undergraduate.
Continuation of Dance 317.
Prerequisites: Dance 317(P) or cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 319 Dance Service-Learning
1-3 cr. Undergraduate/Graduate.
Service-Learning as field work in a community partnership setting under supervision of Dance faculty member.
Prerequisites: jr st; Dance 219(P), & cons instr.
Course Rules: Conc reg in dance course which allows Dance 319 component by cons instr. May be retaken to max of 4 sem or 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 320 Rituals and Culture
2-3 cr. Undergraduate.
Sources, dimensions, and elements of ritual; values being ritualized. Creating ritual components through storytelling, singing/chanting, movement/gestures, wearing/carrying special clothing/objects.
Prerequisites: soph st.
Course Rules: May be retaken to max of 2 sem.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

DANCE 321 Alexander Technique for the Performer
2-3 cr. Undergraduate.
Introduction to the principles of Alexander Technique as it applies to performing artists and new media collaborations.
Prerequisites: none.
Course Rules: Dance Majors and Somatics Minors enroll for 2 cr; all other majors enroll for 3 cr. May be retaken to max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 322 African Dance & Diaspora Technique V
2-3 cr. Undergraduate.
A continuation of Dance 223.
Prerequisites: Dance 223(P) or cons instr.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
DANCE 323 Body Conditioning: Pilates Method
2-3 cr. Undergraduate.
Supervised exercises providing special training for strength, balance, and endurance as well as anatomical study.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 325 Pointe and Variations
2 cr. Undergraduate.
The study of pointe technique and Ballet variations.
Prerequisites: Dance major or cons instr.
Course Rules: May be retaken to max of 2 sem.
Current Offerings: http://uwm.edu/schedule

DANCE 327 Dance for the Musical Theatre I
2-3 cr. Undergraduate.
Study of the role and use of dance in theatrical productions.
Prerequisites: Dance 111(P) and 115(P), or cons instr.
Course Rules: May be retaken to a max of 3 sem.
Last Taught: Spring 2016, Fall 2013, Fall 2010, Spring 2008.
Current Offerings: http://uwm.edu/schedule

DANCE 331 African Percussion Ensemble
3 cr. Undergraduate.
Hands-on experience in drumming and percussion techniques from Africa and the Diaspora.
Prerequisites: Dance or Inter-Arts major or cons instr.
Last Taught: Spring 2012.
Current Offerings: http://uwm.edu/schedule

DANCE 350 Upper-Level Seminar
0 cr. Undergraduate.
Discussion of topics for upper-level Dance majors.
Prerequisites: Dance 250(C).
Course Rules: Fee for 1 cr assessed.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

DANCE 352 Digital Media Portfolio for Performers
3 cr. Undergraduate.
Introduction to digital tools for technique and choreographic portfolios.
Prerequisites: jr st or cons instr
Current Offerings: http://uwm.edu/schedule

DANCE 360 Movement and Learning
3 cr. Undergraduate.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

DANCE 361 Dance in Elementary Education
3 cr. Undergraduate.
A study of the relationship of dance experiences to the growth and development of the elementary school child. Discussion, lectures, experimentation and analysis of dance materials. Suitability of materials for various age groups and situations. Teaching of children's dance classes.
Prerequisites: Dance or Education major or cons instr.
Last Taught: Fall 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

DANCE 362 Dance in Secondary Education and College
3 cr. Undergraduate.
Methods and philosophy of teaching dance in the secondary school. Theory and practice in solving problems arising in practical teaching situations. Observation of dance classes.
Prerequisites: Dance major or cons instr.
Last Taught: Fall 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

DANCE 370 World Movement Traditions:
2-3 cr. Undergraduate.
Dance and movement traditions of world cultures; different cultures each semester.
Prerequisites: none.
Course Rules: May be retaken to max of 2 sem per topic.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 371 Applied Anatomy
3 cr. Undergraduate.
Principles and use of the mind-body construct to aid in understanding movement through ideo-kinetics.
Prerequisites: dance majors, somatics minor or cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 403 Intermediate Yoga For Dancers
2-3 cr. Undergraduate/Graduate.
A continuation of Dance 103 stressing the performance and integration of more advanced asanas.
Prerequisites: Dance 103, or grad st in Dance component of MFA prog. or cons instr.
Course Rules: May be retaken to a max of 2 sem.
Current Offerings: http://uwm.edu/schedule

DANCE 411 Field Work in Dance
2 cr. Undergraduate.
Dance education field experiences in schools, agencies and institutions.
Prerequisites: Dance majors and Dance 361(P) or 362(P) & cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 412 Dance Composition I
3 cr. Undergraduate.
Resources for discovering and inventing movement material, and for developing concepts and structures to give this material perceptual, emotional validity.
Prerequisites: Dance major or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
DANCE 413 Dance Composition II
3 cr. Undergraduate.
A continuation of Dance 412.
Prerequisites: Dance 412(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

DANCE 414 Dance Composition III
2-3 cr. Undergraduate.
Investigation of advanced choreographic, musical, technical challenges in making site-specific performance work.
Prerequisites: Dance 412(P) & 413(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 415 Movement and New Media Collaborations
3 cr. Undergraduate.
Required collaborative new media composition course in the IAT Post-Portfolio Core. Integration of movement and new media.
Prerequisites: Dance or Inter-Arts/IAT major or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

DANCE 420 Creating Dance in the Community
3 cr. Undergraduate.
Understanding and mastering artistic and collaborative/interactive skills for use in community and artistic settings.
Prerequisites: Dance 219(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 421 Alexander Technique Practicum
2 cr. Undergraduate.
Dance 421 is a continuation of Dance 321 focusing on more in-depth study and application of Alexander Technique for performers.
Prerequisites: Dance 321(P) or cons instr.
Course Rules: May be retaken to max of 3 sem.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

DANCE 427 Dance for the Musical Theatre II
2-3 cr. Undergraduate.
Continued advanced study of dance for theatrical productions. Includes analysis of signature dances from Broadway and film musicals.
Prerequisites: Dance 327(P) or cons instr.
Course Rules: May be retaken to a max of 3 sem.
Current Offerings: http://uwm.edu/schedule

DANCE 441 History of African Dance Theory I
3 cr. Undergraduate.
Aesthetics and movement sensibilities throughout the African Diaspora.
Prerequisites: Dance 313(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 450 Teaching Dance in Community Settings
3 cr. Undergraduate.
Prepare dance artists to teach and create dance experiences for people in all ages of the human lifespan, and in a wide range of community settings.
Prerequisites: Dance or Education major or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

DANCE 485 Student Teaching in Dance in Elementary Schools
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.
Prerequisites: BFA in Dance or equiv & admis to teaching cert prog in Dance.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

DANCE 486 Student Teaching in Dance in Secondary Schools
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.
Prerequisites: BFA in Dance or equiv & admis to teaching cert in Dance.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

DANCE 489 Workshop in Dance:
1-6 cr. Undergraduate.
An opportunity for students to deal independently in diversified creative aspects of dance such as choreo-cinema or environmental dance.
Prerequisites: Dance major or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

DANCE 490 Repertoire and Ensemble
3 cr. Undergraduate.
Practicum in group performance in dance productions, touring groups and performances related to the department. Includes original works from classical and contemporary repertoire.
Prerequisites: Dance major or cons instr.
Course Rules: When taken for 0 credit, fee for 1 credit assessed. May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 491 Repertory/Student Choreographer
1 cr. Undergraduate.
Practicum in performing with undergraduate student choreographers on senior projects or composition showings.
Prerequisites: Dance major or cons instr.
Course Rules: When taken for 0 credit, fee for 1 credit assessed. May be retaken to 4 cr max.
Last Taught: Fall 2017, Fall 2016, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
DANCE 497 Study Abroad in Dance:
1-12 cr. Undergraduate/Graduate.
Interdisciplinary and foundational learning in the area of world dance
through interactions with and explorations in differing cultures and areas.
Prerequisites: jr st or cons instr; & acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Summer 2015, Spring 2013, Fall 2012, Summer 2010.
Current Offerings: http://uwm.edu/schedule

DANCE 522 African Dance & Diaspora Technique VI
2-3 cr. Undergraduate.
A continuation of Dance 322.
Prerequisites: Dance 322(P) or cons instr.
Last Taught: Spring 2015, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

DANCE 541 History of African Dance Theory II:
3 cr. Undergraduate.
Further study in the aesthetics and movement sensibilities throughout
the African Diaspora.
Prerequisites: Dance 441(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

DANCE 601 Senior Project
3 cr. Undergraduate.
Composition of an original work to be presented for performance, or
planning and implementation of a major dance project on the campus or
in the community.
Prerequisites: Dance major, Somatics minor or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 623 Body Conditioning: Pilates Method II
2-3 cr. Undergraduate.
Concentrated and advanced study of the Pilates Method incorporating
Pilates equipment to enhance skills developed in Dance 323.
Prerequisites: Dance 323(P) or cons instr.
Course Rules: May be retaken to max of 3 sem.
Current Offerings: http://uwm.edu/schedule

DANCE 624 Feldenkrais for Performers
2 cr. Undergraduate.
How the teaching pedagogy and theories of The Feldenkrais Method® is
applicable to any movement-focused situation, especially dance.
Prerequisites: jr st or cons instr.
Course Rules: Counts as repeat of Dance 489 and 889 with same topic.
May be retaken to 6cr max.
Current Offerings: http://uwm.edu/schedule

DANCE 699 Independent Study in Dance
1-4 cr. Undergraduate.
Individual program of supervised study in Dance under the direction of
the instructor.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 12 cr.
Current Offerings: http://uwm.edu/schedule

DANCE 701 Dance Composition I
3 cr. Graduate.
An investigation of resources for discovering and inventing movement
material, and for developing concepts and structures to give this material
perceptual, emotional validity.
Prerequisites: grad st in MFA in Dance; conc reg Dance 733(C).
Last Taught: Fall 2017, Summer 2017, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

DANCE 702 Dance Composition II
3 cr. Graduate.
A continuation of Dance 701.
Prerequisites: grad st in MFA in Dance; Dance 701(P), conc reg Dance
734(C).
Current Offerings: http://uwm.edu/schedule

DANCE 711 Theory and Techniques of Ballet: Intermediate
2 cr. Graduate.
Technical study of classical ballet.
Prerequisites: grad st in MFA in Dance prog & audition.
Course Rules: May be repeated twice for cr.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

DANCE 712 Theory and Techniques of Ballet: Intermediate
2 cr. Graduate.
A continuation of Dance 711.
Prerequisites: grad st; Dance 711 or audition.
Course Rules: May be repeated twice for cr.
Current Offerings: http://uwm.edu/schedule

DANCE 717 Theory and Techniques of Contemporary Concert Dance:
Intermediate
2 cr. Graduate.
An intensive course designed to develop understanding of the major
techniques of contemporary concert dance.
Prerequisites: grad st in MFA in Dance prog & audition.
Course Rules: May be repeated twice for cr.
Current Offerings: http://uwm.edu/schedule

DANCE 718 Theory and Techniques of Contemporary Concert Dance:
Intermediate
2 cr. Graduate.
A continuation of Dance 717.
Prerequisites: grad st MFA in Dance; Dance 717 or audition.
Course Rules: May be repeated twice for cr.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 721 Alexander Technique, Developmental Movement and Dance
1-3 cr. Graduate.
A hands-on exploration of the application of the Alexander Technique to
advanced dance training through developmental movement.
Prerequisites: grad st in MFA in Dance prog or cons instr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule
DANCE 722 Alexander Technique Practicum
1-3 cr. Graduate.
Continuation of Dance 721 focusing on a more in-depth study and application of Alexander Technique for advanced dancers.
Prerequisites: grad st in MFA in Dance prog & Dance 721
Current Offerings: http://uwm.edu/schedule

DANCE 723 Pilates Technique and Applications
2 cr. Graduate.
Use of Pilates method to understand and articulate essential concepts and theories of movement, and refine dance technique.
Prerequisites: grad st in MFA in Dance or cons instr.
Course Rules: May be retaken once.
Current Offerings: http://uwm.edu/schedule

DANCE 733 Improvisation 1
3 cr. Graduate.
Techniques and structures for improvisation—the development of processes for evolving movement material from an exploration of the dynamics of inter and intra-relationships, and environment.
Prerequisites: admission to MFA in Dance program.
Current Offerings: http://uwm.edu/schedule

DANCE 734 Improvisation 2
3 cr. Graduate.
A continuation of Dance 733.
Prerequisites: grad st MFA in Dance; Dance 733(P) & conc reg in Dance 702(C).
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 743 Dynamic Analysis of Movement I
2 cr. Graduate.
Exploration of personal patterning and discovery of movement sources at the body level. Incorporates material from bartenieff fundamentals, feldenkrais, and sweigard.
Prerequisites: grad st in MFA in Dance prog.
Last Taught: Fall 2016, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

DANCE 744 Dynamic Analysis of Movement II
2 cr. Graduate.
A continuation of Dance 743. Advanced body level work, application of bartenieff fundamentals to dance technique.
Prerequisites: grad st MFA in Dance & Dance 743(P).
Current Offerings: http://uwm.edu/schedule

DANCE 751 Laban Movement Analysis
3 cr. Graduate.
Theory and movement practice in effort/shape for use both in performance and in choreography.
Prerequisites: grad st in MFA in Dance prog.
Current Offerings: http://uwm.edu/schedule

DANCE 761 Survey of Dance Literature and Bibliography
3 cr. Graduate.
Lecture, research, and discussion of the major English language dance reference works, and of dance research publications.
Prerequisites: grad st in MFA in Dance prog.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

DANCE 762 Dance in Secondary Education and College
3 cr. Graduate.
Prerequisites: grad st & admis to MFA in Dance prog.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 771 History of Renaissance and Baroque Dance
3 cr. Graduate.
Lecture, discussion of readings of the periods (in translation). Emphasis also upon performing some of the period dances.
Prerequisites: grad st in dance component of mfa prog.
Current Offerings: http://uwm.edu/schedule

DANCE 772 American Concert Dance of the 20th and 21st Century
3 cr. Graduate.
Graduate seminar in special topics of American concert dance of the twentieth and twentieth first century.
Prerequisites: admis to MFA in Dance prog.
Current Offerings: http://uwm.edu/schedule

DANCE 775 Valuing and Evaluation of Dance
3 cr. Graduate.
Observing and describing dancing and choreography and shaping values.
Prerequisites: grad st.
Last Taught: Spring 2012.
Current Offerings: http://uwm.edu/schedule

DANCE 790 Repertoire and Ensemble
1-3 cr. Graduate.
Practicum in group performance in dance department productions, touring groups, and performances related to the dance department. Includes original works from classical and contemporary repertoire.
Prerequisites: grad st in MFA in Dance program.
Course Rules: May be repeated to max of 12 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 799 Independent Study
1-3 cr. Graduate.
Individual faculty and student will define the teaching/learning contract for the semester and agree on the credit.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule
DANCE 801 Choreography I
3 cr. Graduate.
Creating fully mounted works; choreography, performance quality, lighting, decor, costumes.
Prerequisites: grad st in Dance choreography track of MFA in Dance prog; Dance 701(P) & 702(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 802 Choreography II
3 cr. Graduate.
Creating fully mounted works of greater length and complexity.
Prerequisites: grad st in Dance Choreography track of MFA in Dance prog; Dance 701(P), 702(P), 801(P), cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

DANCE 831 Sound Design for Dance
3 cr. Graduate.
This course explores the theoretical, technical, and creative work of sound design as it relates to the contemporary dance artist.
Prerequisites: grad st in MFA in Dance.
Current Offerings: http://uwm.edu/schedule

DANCE 861 Research Methodology for Dance
3 cr. Graduate.
Lecture, formulation of research proposal, research and write-up of a dance research problem.
Prerequisites: grad st & admis to MFA in Dance prog.
Current Offerings: http://uwm.edu/schedule

DANCE 871 Applied Anatomy for Dance
2-3 cr. Graduate.
Study of human bony and neuromuscular structures in theory and movement. Lec only for 2 cr; lec & lab for 3 cr.
Prerequisites: grad st in dance component of MFA prog; Dance 711(P) & 717(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

DANCE 873 Field History: Contemporary Dance Festivals
2-4 cr. Graduate.
Research, reading, attendance and documentation on selected festivals/series events. Pre-study of choreography/performance style, background, influences, artistic themes. Group discussions and evaluations.
Prerequisites: grad st in MFA in Dance prog.
Course Rules: May be repeated with permission to max of 9 cr.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

DANCE 880 Developing Performance Quality
1-3 cr. Graduate.
Studies in dynamics of specific choreography.
Prerequisites: grad st in MFA in Dance prog; Dance 711 & 717 or cons instr.
Course Rules: Cr determined prior to regis. May be repeated for up to 6 cr.
Current Offerings: http://uwm.edu/schedule

DANCE 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr will be assessed.
Current Offerings: http://uwm.edu/schedule

DANCE 889 Special Workshops:
1-3 cr. Graduate.
Special short intensive workshops of 1-4 weeks during inter-terms or summer sessions presented by guest artists.
Prerequisites: grad st in MFA in Dance prog or cons instr.
Course Rules: May be retaken to 9 cr max.
Current Offerings: http://uwm.edu/schedule

DANCE 990 Dance Final Thesis/Project
2-4 cr. Graduate.
Final demonstration of craft and artistry mastered in program, when completion approved by project committee.
Prerequisites: grad st MFA in Dance; cons dept chair.
Course Rules: May be repeated to max of 8 cr.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel Burkholder</td>
<td>Assistant Professor</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✔</td>
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</tr>
<tr>
<td>Ferne Caulker-Brons</td>
<td>Professor</td>
<td>BS</td>
<td>University of Iowa</td>
<td>✔</td>
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<tr>
<td>Simone Ferro</td>
<td>Professor</td>
<td>MFA</td>
<td>University of California, Los Angeles</td>
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<tr>
<td>Maria Gillespie</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Gloria Gustafson</td>
<td>Assistant Professor</td>
<td>Unlisted</td>
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<tr>
<td>Mary Hibbard</td>
<td>Assistant Professor</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✔</td>
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<tr>
<td>Danielle Kuepper</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Debra Loewen</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>
The Minor in Dance Performance is designed to accommodate two different groups of students. The first group of students have years of dance training prior to entering the university and wish to continue to dance while pursuing another major at UWM. The second group of students have the desire for dance performance training, but no prior opportunity before coming to UWM.

### Admission Requirements for the Minor in Dance Performance

Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Prior to completing 6-8 credits of the Minor in Dance Performance coursework, students must apply for [http://uwm.edu/arts/dance/minor-application](http://uwm.edu/arts/dance/minor-application) and be accepted into the minor.

No more than 6-8 credits (2-3 courses) will be applied toward the minor until after a student has been admitted and a Dance Faculty Advisor has been assigned. Students must maintain a 2.75 GPA overall to remain in the Minor in Dance Performance. All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department's academic requirements for the Minor in Dance Performance.

### Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
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<tr>
<td><strong>Choose 3 credits:</strong></td>
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<tr>
<td>DANCE 110</td>
<td>Introduction to the Art of Dance</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 313</td>
<td>History of Dance in the African Diaspora (OWC-B)</td>
<td>3</td>
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<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History (OWC-B)</td>
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<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater (OWC-B)</td>
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<tr>
<td><strong>Choose 3 credits:</strong></td>
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<td></td>
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<tr>
<td>DANCE 319</td>
<td>Dance Service-Learning</td>
<td>1</td>
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<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble ^1</td>
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<tr>
<td>DANCE 491</td>
<td>Repertory/Student Choreographer ^2</td>
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</tbody>
</table>

**Dance Technique and Somatics Courses ^3**

**Choose 17 credits:**

**DANCE Technique Courses:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>3</td>
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<tr>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td>3</td>
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<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td>3</td>
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<tr>
<td>DANCE 114</td>
<td>Contemporary Dance Practice: Modern Tradition II</td>
<td>3</td>
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<tr>
<td>DANCE 115</td>
<td>Jazz Dance I</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 116</td>
<td>Jazz Dance II</td>
<td>2</td>
</tr>
</tbody>
</table>

1. Any dancer cast in faculty or guest artist choreography must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 3 times per week during the rehearsal semester.
2. Any dancer cast in a student work must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 2 times per week during the rehearsal semester.
3. Students completing the Dance Performance minor may enroll in and complete a maximum of 2 courses from the Somatics Course List.

**Somatics Course List:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 103</td>
<td>Introduction to Iyengar Yoga</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 220</td>
<td>Body Sense</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 321</td>
<td>Alexander Technique for the Performer</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 323</td>
<td>Body Conditioning: Pilates Method</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 403</td>
<td>Intermediate Yoga For Dancers</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 421</td>
<td>Alexander Technique Practicum</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 623</td>
<td>Body Conditioning: Pilates Method II</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 624</td>
<td>Feldenkrais for Performers</td>
<td>2</td>
</tr>
</tbody>
</table>

Location: Theatre 120

**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)

**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/).
Dance, BA

The Bachelor of Arts (BA) in Dance prepares students to teach participatory movement traditions in community settings, and to lead community groups in creating and performing their own dances and movement rituals. Community-based service-learning experiences provide many opportunities to realize these goals. Many Dance BA students pursue a double major at UWM; the service-learning component provides an opportunity to integrate the content of the two areas of study.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University Core</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>Dance Technique and Somatics</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>Dance Creative and Academic</td>
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<td>24</td>
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<td></td>
<td>Total Credits</td>
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</table>

University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Competencies 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B</td>
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</tr>
<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
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</tr>
<tr>
<td></td>
<td>Foreign Language 2</td>
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</tr>
<tr>
<td></td>
<td>Distribution Requirements 1</td>
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</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
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</tr>
<tr>
<td></td>
<td>Cultural Diversity 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Additional Electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Credits in Peck School of the Arts 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>University Credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>42</td>
</tr>
</tbody>
</table>

1. Learn more about the General Education Requirements (p. 33).
2. Credits may be utilized in required curriculum areas.
3. Chosen from three of the following departments in PSOA: Art & Design, Fine Arts, Theatre, or Film, Video, Animation, and New Genres.

Dance Foundations Curriculum

Students in both the BFA and BA dance degree programs must complete the following Dance Foundations curriculum in their freshman year:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DANCE 111</td>
<td>Ballet I</td>
</tr>
<tr>
<td></td>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
</tr>
<tr>
<td></td>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>9</td>
</tr>
</tbody>
</table>

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dance Technique and Somatics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DANCE 103</td>
<td>Introduction to Iyengar Yoga</td>
</tr>
<tr>
<td></td>
<td>DANCE 111</td>
<td>Ballet I</td>
</tr>
<tr>
<td></td>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
</tr>
<tr>
<td></td>
<td>DANCE 220</td>
<td>Body Sense</td>
</tr>
<tr>
<td></td>
<td>DANCE 122</td>
<td>African Dance &amp; Diaspora Technique 1</td>
</tr>
<tr>
<td></td>
<td>Select three of the following:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
</tr>
<tr>
<td></td>
<td>DANCE 211</td>
<td>Contemporary Dance Practice: Ballet Tradition III</td>
</tr>
<tr>
<td></td>
<td>DANCE 212</td>
<td>Contemporary Dance Practice: Ballet Tradition IV</td>
</tr>
<tr>
<td></td>
<td>DANCE 213</td>
<td>Contemporary Dance Practice: Modern Tradition II</td>
</tr>
<tr>
<td></td>
<td>DANCE 214</td>
<td>Contemporary Dance Practice: Modern Tradition III</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>DANCE 115</td>
<td>Jazz Dance I</td>
</tr>
<tr>
<td></td>
<td>DANCE 117</td>
<td>Tap I</td>
</tr>
<tr>
<td></td>
<td>DANCE 370</td>
<td>World Movement Traditions: (approved Sub-topic)</td>
</tr>
<tr>
<td></td>
<td>Dance Creative and Academic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DANCE 110</td>
<td>Introduction to the Art of Dance 3</td>
</tr>
<tr>
<td></td>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
</tr>
<tr>
<td></td>
<td>DANCE 251</td>
<td>Laban Movement Analysis I (QL-B)</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DANCE 313</td>
<td>History of Dance in the African Diaspora (OWC-B)</td>
</tr>
<tr>
<td></td>
<td>DANCE 314</td>
<td>Contemporary Dance History (OWC-B)</td>
</tr>
<tr>
<td></td>
<td>DANCE 315</td>
<td>History of the American Musical Theater (OWC-B)</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>DANCE 319</td>
<td>Dance Service-Learning</td>
</tr>
<tr>
<td></td>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
</tr>
<tr>
<td></td>
<td>DANCE 352</td>
<td>Digital Media Portfolio for Performers</td>
</tr>
<tr>
<td></td>
<td>DANCE 412</td>
<td>Dance Composition I</td>
</tr>
<tr>
<td></td>
<td>DANCE 420</td>
<td>Creating Dance in the Community</td>
</tr>
<tr>
<td></td>
<td>DANCE 460</td>
<td>Teaching Dance in Community Settings</td>
</tr>
<tr>
<td></td>
<td>DANCE 601</td>
<td>Senior Project</td>
</tr>
<tr>
<td></td>
<td>General Electives</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Select 24 general electives (May be Taken in Dance)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>78-79</td>
</tr>
</tbody>
</table>

1. 3 credits if GER-CD is desired for DANCE 122.
2. Students must pass with a B minimum.
Recommended BA Course Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 115</td>
<td>Jazz Dance I and Jazz Dance II</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 116</td>
<td>Tap I and Tap II</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 209</td>
<td>Dance Production</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 217</td>
<td>Dance Production Practicum</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 310</td>
<td>Jazz III</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 313</td>
<td>History of Dance in the African Diaspora (OWC-B)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 319</td>
<td>Dance Service-Learning</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 320</td>
<td>Rituals and Culture</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 321</td>
<td>Alexander Technique for the Performer</td>
<td></td>
</tr>
<tr>
<td>&amp; DANCE 421</td>
<td>Alexander Technique Practical</td>
<td></td>
</tr>
<tr>
<td>DANCE 323</td>
<td>Body Conditioning: Pilates Method</td>
<td></td>
</tr>
<tr>
<td>&amp; DANCE 623</td>
<td>Body Conditioning: Pilates Method II</td>
<td></td>
</tr>
<tr>
<td>DANCE 403</td>
<td>Intermediate Yoga For Dancers</td>
<td></td>
</tr>
<tr>
<td>DANCE 420</td>
<td>Dance or University Elective</td>
<td></td>
</tr>
<tr>
<td>DANCE 421</td>
<td>Dance or University Elective</td>
<td></td>
</tr>
</tbody>
</table>

Any dancer cast in faculty or guest artist choreography must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 3 times per week during the rehearsal semester.

Recommended Course of Study

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Includes Foundations Curriculum</td>
<td></td>
</tr>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 220</td>
<td>Body Sense</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>DANCE 110</td>
<td>Introduction to the Art of Dance</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td>3</td>
</tr>
<tr>
<td>or DANCE 114</td>
<td>Contemporary Dance Practice: Modern Tradition II</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DANCE 115</td>
<td>Jazz Dance I</td>
<td></td>
</tr>
<tr>
<td>DANCE 117</td>
<td>Tap I</td>
<td></td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions: approved Sub-topic</td>
<td></td>
</tr>
<tr>
<td>DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I</td>
<td>2-3</td>
</tr>
<tr>
<td>DANCE 412</td>
<td>Dance Composition I 1</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 103</td>
<td>Introduction to Iyengar Yoga</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 211</td>
<td>Contemporary Dance Practice: Ballet Tradition III</td>
<td>3</td>
</tr>
<tr>
<td>or DANCE 213</td>
<td>Contemporary Dance Practice: Modern Tradition III</td>
<td></td>
</tr>
<tr>
<td>Elective (May be taken in Dance)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Core</td>
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<td>6</td>
</tr>
<tr>
<td>Year 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>Select one of the following:</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 115</td>
<td>Jazz Dance I</td>
<td></td>
</tr>
<tr>
<td>DANCE 117</td>
<td>Tap I</td>
<td></td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions:</td>
<td></td>
</tr>
<tr>
<td>DANCE 212</td>
<td>Contemporary Dance Practice: Ballet Tradition IV</td>
<td>3</td>
</tr>
<tr>
<td>or DANCE 214</td>
<td>Contemporary Dance Practice: Modern Tradition IV</td>
<td></td>
</tr>
<tr>
<td>DANCE 251</td>
<td>Laban Movement Analysis I (QL-B)</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History (OWC-B)</td>
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<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 313</td>
<td>History of Dance in the African Diaspora (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>DANCE 420</td>
<td>Creating Dance in the Community</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
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<tr>
<td>Credits</td>
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<td>17</td>
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<td>Spring</td>
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</tr>
<tr>
<td>DANCE 352</td>
<td>Digital Media Portfolio for Performers</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 319 or DANCE 490</td>
<td>Dance Service-Learning 2,3,4,5,6</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 420</td>
<td>Creating Dance in the Community</td>
<td>3</td>
</tr>
<tr>
<td>Dance or University Elective</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Coursework involved in MPPR guidelines.
2 Any dancer cast in faculty or guest artist choreography must be enrolled in at least 3 UWM Department of Dance technique classes per week during the rehearsal semester.
3 Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for less than 18 credits, he/she must enroll in DANCE 490 for 1 credit during the appropriate semester.
Admission and Retention Requirements for the Dance BFA and BA

Admission Requirements

Please see uwm.edu/arts/apply for information on admission starting spring 2017.

Students must meet general university admission requirements (p. 12) to be admitted to any of the undergraduate curricula as a freshman or transfer student. Passing the Dance Entrance Audition (on-campus or video) is required for entrance into the Dance BA or BFA degree programs.

On-campus auditions consist of a variety of technique classes, writing sample, one-minute solo performance (can be self-choreographed), and Q&A session. Video submission (only with prior authorization via email to dance-admission@uwm.edu) consists of writing sample, 5 minutes each of two contrasting dance techniques, and 2-3 minutes of performance video (DVD or URLs in online form). Auditions after the last on-campus audition will be by appointment or via video submission. If unsuccessful, students may re-audition, but are limited to auditioning twice per academic year (via any method).

To RSVP for a specific audition date, or to submit the video audition form (after authorization), prospective students must:

1. Complete the appropriate online form at uwm.edu/arts/apply (http://uwm.edu/arts/apply) and submit separate copies of their high school and/or college transcripts (unofficial copies are acceptable for this purpose).

Transcripts and/or video footage should be sent to dance-admission@uwm.edu or UWM Dance Admission, P.O. Box 413, Milwaukee, WI 53201.

UWM priority application deadline is March 1.

Transfer students must complete a minimum of half of the required dance credits while in residence at UWM in order to graduate. The exact total is available upon admission to the program. Transcript evaluation by a dance advisor is required before placement into dance major courses.

Once accepted, students may enter the program during either fall or spring semesters, but are strongly encouraged to enter in the fall term to progress more smoothly through the BA or BFA curricular sequence.

Retention Requirements

Each undergraduate dance major's coursework will be reviewed at the end of his/her sophomore year to determine continuance in the major, as part of the Mid-Program Portfolio Review. Students must maintain a minimum grade point average of 3.0 in the dance major.

All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department's academic requirements. Each student's ability to undertake the demands of the dance program, including his/her overall physical ability to perform in classes, auditions, rehearsals, and/or performances, will be a factor in the following: grading at the end of each semester; the audition/rehearsal/performance process for departmental productions and outreach events; the Mid-Program Portfolio Review assessment; determining "probation" status; and potentially removing a student from the program.

Laptops

Dance BA and BFA students are required to have a laptop computer (or comparable tablet meeting minimum specifications) by the beginning of their sophomore year, but are strongly encouraged to have one when they enter the program. The hardware and software must meet or exceed the current departmental requirements, as stated on the website (uwm.edu/arts/apply/laptop/) and in the Dance Undergraduate Student Handbook. Website also includes information on using financial aid to fund this expense.

Honors in the Major

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.
**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Location:** Theatre 120  
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays) 
**Contact:** (414) 229-4763

**Dance, BFA**

The Performance and Choreography/Contemporary Track in the Bachelor of Fine Arts (BFA) in Dance prepares students to perform and create original dance choreography for theatrical productions. Dance BFA students complete a rigorous technical and creative curriculum designed to develop the student’s individual artistic voice. Contemporary Track majors additionally study body/mind sciences, dance pedagogy, historical and cultural contexts for dance, and the interactive collaboration skills necessary to bring dance to the theatre with a high degree of excellence.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE</td>
<td>University Core</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>Dance Technique</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>Dance Creative</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Dance Academic</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>Dance Electives</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>120</td>
</tr>
</tbody>
</table>

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Competencies</td>
<td></td>
</tr>
</tbody>
</table>

**Oral and Written Communication – Part A and Part B**

**Quantitative Literacy (QL) – Part A and Part B**

**Foreign Language**

**Distribution Requirements**

| Humanities | 6 |
| Natural Sciences (Must include one lab) | 6 |
| Social Sciences | 6 |
| Cultural Diversity | 2 |

**Electives**

| Additional Electives | 12 |
| Credits in Peck School of the Arts | 9 |
| University Credits   | 3  |
| Total Credits        | 42 |

1. Learn more about the General Education Requirements (p. 33).
2. Credits may be utilized in required curriculum areas.
3. Chosen from three of the following departments in PSOA: Art & Design, Fine Arts, Theatre, or Film, Video, Animation, and New Genres.

**Dance Foundations Curriculum**

Students in both the BFA and BA dance degree programs must complete the following Dance Foundations curriculum in their freshman year:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE</td>
<td>Contemporary Dance Practice: Modern Tradition</td>
<td>4</td>
</tr>
</tbody>
</table>

Select a minimum of 6 semesters:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td></td>
</tr>
<tr>
<td>DANCE 114</td>
<td>Contemporary Dance Practice: Modern Tradition II</td>
<td></td>
</tr>
<tr>
<td>DANCE 213</td>
<td>Contemporary Dance Practice: Modern Tradition III</td>
<td></td>
</tr>
<tr>
<td>DANCE 214</td>
<td>Contemporary Dance Practice: Modern Tradition IV</td>
<td></td>
</tr>
<tr>
<td>DANCE 317</td>
<td>Contemporary Dance Practice: Modern Tradition V</td>
<td></td>
</tr>
<tr>
<td>DANCE 318</td>
<td>Contemporary Dance Practice: Modern Tradition VI</td>
<td></td>
</tr>
</tbody>
</table>

**Contemporary Dance Practice: Ballet Tradition**

Select a minimum of 6 semesters:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td></td>
</tr>
<tr>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td></td>
</tr>
<tr>
<td>DANCE 211</td>
<td>Contemporary Dance Practice: Ballet Tradition III</td>
<td></td>
</tr>
<tr>
<td>DANCE 212</td>
<td>Contemporary Dance Practice: Ballet Tradition IV</td>
<td></td>
</tr>
</tbody>
</table>
DANCE 311 Contemporary Dance Practice: Ballet Tradition V
DANCE 312 Contemporary Dance Practice: Ballet Tradition VI

**Complementary Dance Technique** 5,6

Select a minimum of 2 semesters:

- DANCE 115 Jazz Dance I
- DANCE 122 African Dance & Diaspora Technique I

**Somatic and Conditioning Practices** 7

Select a minimum of 3 semesters:

- DANCE 103 Introduction to Iyengar Yoga
- DANCE 220 Body Sense
- DANCE 321 Alexander Technique for the Performer
- DANCE 323 Body Conditioning: Pilates Method
- DANCE 403 Intermediate Yoga For Dancers
- DANCE 421 Alexander Technique Practicum
- DANCE 623 Body Conditioning: Pilates Method II

**Dance Creative Courses**

DANCE 135 Introduction to Dancemaking Skills 8
DANCE 231 Music and Dancers I
DANCE 233 Improvisation for Dancemaking 8
DANCE 352 Digital Media Portfolio for Performers
DANCE 412 Dance Composition I 8
DANCE 413 Dance Composition II
DANCE 414 Dance Composition III 9
DANCE 490 Repertoire and Ensemble 10, 11

**Dance Academic Courses**

DANCE 110 Introduction to the Art of Dance 8
DANCE 192 Freshmen Seminar
DANCE 209 Dance Production 8
DANCE 250 Sophomore Seminar
DANCE 251 Laban Movement Analysis I
DANCE 309 Dance Production Practicum 8
DANCE 314 Contemporary Dance History
DANCE 350 Upper-Level Seminar
DANCE 371 Applied Anatomy
DANCE 460 Teaching Dance in Community Settings
DANCE 601 Senior Project

**Total Credits**: 88

---

4 100- and 200-level technique classes taken for 3 credits; 300-level for 2 credits
5 One Jazz or African technique class is required during sophomore year. If GER-Cultural Diversity credits are desired for DANCE 122, 3-credit section is mandatory.
6 Option: Students wishing to substitute one or two semester(s) of either ballet or modern (minimum 5 semesters of ballet and modern are required) for additional Complementary Dance Technique course(s) in Jazz, Africa and Diaspora Technique, Tap, Music Theatre Styles: choose from DANCE 116, DANCE 117, DANCE 123, DANCE 217, DANCE 222, DANCE 327, DANCE 427. Student must approach his/her Dance Faculty Advisor the semester prior to enrollment for substitution approval.
7 Yoga, Pilates, Body Sense, Alexander Technique

---

**Recommended Course of Study**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 209</td>
<td>Dance Production</td>
<td>2</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 114</td>
<td>Contemporary Dance Practice: Modern Tradition II</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Somatic Course #1 (See list below)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>DANCE 115</td>
<td>Jazz Dance I (3 cr. in 122 if GER-CD is desired)</td>
<td>2</td>
</tr>
<tr>
<td>or DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 213</td>
<td>Contemporary Dance Practice: Modern Tradition III</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 412</td>
<td>Dance Composition I 3</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 211</td>
<td>Contemporary Dance Practice: Ballet Tradition III</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 231</td>
<td>Music and Dancers I 3</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 371</td>
<td>Applied Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble 1</td>
<td>1</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
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<td>16</td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 214</td>
<td>Contemporary Dance Practice: Modern Tradition IV</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 251</td>
<td>Laban Movement Analysis I (QL-B)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 413</td>
<td>Dance Composition II</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble 1</td>
<td>1</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 212</td>
<td>Contemporary Dance Practice: Ballet Tradition IV</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 352</td>
<td>Digital Media Portfolio for Performers</td>
<td>2</td>
</tr>
<tr>
<td>Dance Elective (See list Below)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Somatic Course #2</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>DANCE 317</td>
<td>Contemporary Dance Practice: Modern Tradition V</td>
<td>3</td>
</tr>
</tbody>
</table>
Once accepted, students may enter the program during either fall or spring semesters, but are strongly encouraged to enter in the fall term to progress more smoothly through the BA or BFA curricular sequence.

**Retention Requirements**

Each undergraduate dance major’s coursework will be reviewed at the end of his/her sophomore year to determine continuance in the major, as part of the **Mid-Program Portfolio Review**. Students must maintain a minimum grade point average of 3.0 in the dance major.

All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department’s academic requirements. Each student’s ability to undertake the demands of the dance program, including his/her overall physical ability to perform in classes, auditions, rehearsals, and/or performances, will be a factor in the following: grading at the end of each semester; the audition/rehearsal/performance process for departmental productions and outreach events; the Mid-Program Portfolio Review assessment; determining "probation" status; and potentially removing a student from the program.

**Laptops**

Dance BA and BFA students are required to have a laptop computer (or comparable tablet meeting minimum specifications) by the beginning of their sophomore year, but are strongly encouraged to have one when they enter the program. The hardware and software must meet or exceed the current departmental requirements, as stated on the website (uwm.edu/arts/apply/laptop) and in the Dance Undergraduate Student Handbook. Website also includes information on using financial aid to fund this expense.

**Honors in the Major**

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable
semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Location:** Theatre 120  
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit [http://uwm.edu/arts/advising/](http://uwm.edu/arts/advising/).

**Dance, MFA**

The Department of Dance offers graduate study leading to the Master of Fine Arts in Dance. The program offers opportunity to hone technical skills, to explore personal intuition, imagination, and craft both in creating dance works and also in performing them, and to focus on critical areas of dance core studies.

The MFA in Dance is structured to meet the scheduling constraints of working dance professional performers, choreographers, and educators: A block of on-campus and distance learning coursework is available during the fall and spring semesters, in addition to the intensive summer graduate course offerings.

Our program consists of 60 credits with an emphasis on contemporary choreography and performance, focusing on the candidate’s independent creative research. Graduate students engage in choreographic research through physical and theoretical inquiry while having the opportunity to examine their technical movement practice through current somatic perspectives. The program supports student research by providing facilities and customized opportunities to investigate and perform their work in Milwaukee. Through faculty mentorship and rigorous personal explorations, students are guided to integrate their research into a final thesis project.

Faculty teaching in the program are nationally and internationally acclaimed performing and choreographic artists in the field. Their research spans cultural perspectives, technical forms, somatic modalities, site-specific performance, improvisation, interdisciplinary collaboration, and technology and new media.

Our students are prepared to be future university dance professors, as well as secondary school educators with the means to expand their theoretical and choreographic skills, while simultaneously increasing their earning potential in academic institutions and K-12 public and private schools.

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**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline ([http://uwm.edu/graduateschool/program-deadlines](http://uwm.edu/graduateschool/program-deadlines)), call the Registrar’s Office at (414) 229-3800 or submit a contact form ([http://uwm.edu/registrar/contact-us](http://uwm.edu/registrar/contact-us)) online.

**Admission**

Applicants who meet Graduate School requirements plus these program requirements may be admitted in good standing:

1. **Reason Statement:** Content must include the following:
   - Explain the aspects of your embodied practice and what you achieve through that experience (movement tradition, teaching, somatics, writing, performance, creation). How do you see your movement practice evolving in the field of contemporary performance?
   - Articulate how you investigate and create unique choreographic work based on your movement practice(s). Include how your intellectual interests inform your choreographic inquiry.
   - Out of state students will be considered for a Non-Resident-Tuition Remission Award. To qualify, please provide a one-paragraph statement of financial need to be included in your application. Include information of your current financial situation that outlines your economic need.

2. **Required Work Sample:** Work sample description page (no more than 3 pages total) with video URLs for 10-12 minutes of recent performance and/or choreography. This may consist of excerpted works (minimum two minutes from each work). Must include exact URL (web address) for each work (clickable links preferred, with passwords on the description page as necessary). For each work, the description should include choreographer, performers, venue, company or organization, dates, and any other applicable information (designers, etc).

3. **Required Curriculum Vitae or Resume** (no more than 5 pages).
4. **Optional Press Materials:** Preference is a single pdf (not individual file uploads).
5. **Recommendations:** Two (2) recent recommendations from people who can provide information on your qualifications. The site permits the recommenders to write or upload their statements directly into the system (preferred) or the department can upload on behalf of the recommenders.

**Credits and Courses**

Minimum degree requirement in Performing Arts-Dance is 60 credits distributed as follows, of which at least 6 must be in complementary studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dance Techniques and Somatics (Modern, African, Ballet, Alexander, Pilates, Yoga), 9-15 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Creating, Staging, and Performing Dance Works, 16-22 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theory and Application of Dance, 12-18 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives in Complementary Studies, 6-14 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final Project, 4-8 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>
Final Project
Each student must undertake a final project of either one or two semesters duration (4-8 cr.). The project must be approved by the major advisor. The project will inevitably relate to dance and movement, so that there is often a choreographic component involved, most likely a concert. These may occur in a variety of approved performance settings which may include on- or off-campus sites. Nonetheless, all projects require research and a written component, which will vary depending on the process (and number of credits), working with a thesis chair and two other committee members.

Program Requirements
Major Professor as Advisor
The student must have a major professor to advise and supervise studies as specified in Graduate School regulations; the student may not register for any courses without this advisor's prior approval. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

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

Somatics, Minor
Our Minor in Somatics provides an opportunity to practice and survey a wide range of somatic methodologies, including Alexander Technique, Feldenkrais, Laban Movement Analysis, Martial Arts, Pilates Method and Iyengar Yoga. Upon completion, students are prepared for further study in an array of dance/movement disciplines, including teaching and health/wellness.

Thomas Hanna first used the term 'somatics' in the 1970's in the first issue of the journal Somatics. He used "soma" to refer to the wide range of body awareness and mind-body practices which had emerged in many cultures throughout the twentieth century. The focus of somatics is on bodily experience, and on how our soma interacts with the world.

The Minor in Somatics provides coursework of special interest to Health Sciences, Nursing, and Education majors who aim to work in helping professions and facilitate movement awareness/change. Music, Acting, and Dance performance students in the Peck School of the Arts will also benefit from learning how to self-monitor physical performance, access the movement imagination, move expressively, and connect meaningfully with an audience.

Requirements
Admission Requirements for the Somatics Minor
Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Prior to completing 6-8 credits of the Somatics Minor coursework, students must apply for and be accepted into the minor. Application consists of:

1. the online application (http://uwm.edu/arts/dance/minor-application) and
2. submission of unofficial UWM transcript via email to somatic-minor@uwm.edu.

No more than 6-8 credits (2-3 courses) will be applied toward the minor until after a student has been admitted and a Dance Faculty Advisor has been assigned.

Continuation Requirements
All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department’s academic requirements for the Somatics Minor.

Students must maintain a 2.75 GPA overall to remain in the Somatics Minor.

Somatics Minor Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 103</td>
<td>Introduction to Iyengar Yoga</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 133</td>
<td>Creative Movement I (for Non-Dance majors)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 220</td>
<td>Body Sense</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking (for Dance majors)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 251</td>
<td>Laban Movement Analysis I (QL-B)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 371</td>
<td>Applied Anatomy</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives in Dance
Select 12 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I</td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions:</td>
</tr>
<tr>
<td>DANCE 321</td>
<td>Alexander Technique for the Performer</td>
</tr>
<tr>
<td>DANCE 323</td>
<td>Body Conditioning: Pilates Method</td>
</tr>
<tr>
<td>DANCE 360</td>
<td>Movement and Learning</td>
</tr>
<tr>
<td>DANCE 371</td>
<td>Applied Anatomy (strongly recommended for students whose major doesn't include anatomy/kinesiology)</td>
</tr>
<tr>
<td>DANCE 403</td>
<td>Intermediate Yoga For Dancers</td>
</tr>
<tr>
<td>DANCE 421</td>
<td>Alexander Technique Practicum</td>
</tr>
<tr>
<td>DANCE 623</td>
<td>Body Conditioning: Pilates Method II</td>
</tr>
<tr>
<td>DANCE 624</td>
<td>Feldenkrais for Performers</td>
</tr>
</tbody>
</table>

Total Credits: 26

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.
FILM

Film, Video, Animation, and New Genres

With dual focus on both the theoretical and practical worlds of filmmaking, the Department of Film, Video, Animation, and New Genres provides programs for students with the flexibility to explore all aspects of the industry. Our faculty are professionals and filmmakers who actively screen at festivals and exhibition spaces from the Sundance Film Festival to the Centre Georges Pompidou in Paris.

Programs

- Animation, BA (p. 184)
- Film, BFA (p. 187)
- Film, Video, Animation and New Genres, Minor (p. 190)
- Performing Arts, MFA: Film (p. 191)

Film, Video, Animation, and New Genres Courses

FILM 114 Film and Experience: The Filmmaker and the Viewer
3 cr. Undergraduate.
Consideration of film as an experience—aesthetic, physical, psychological, social, and historical—for both the filmmaker and the viewer.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FILM 116 Listening and Recording
3 cr. Undergraduate.
Development of perceptual and expressive competencies using low-cost tools, fieldwork, and the web in response to historical and contemporary issues facing media artists.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 117 Filmmaking Technologies and Techniques
3 cr. Undergraduate.
Fundamentals of still & motion picture image making, incl lighting, exposure, composition, digital transfer.
Prerequisites: none. When over-enrolled, preference will be given to Pre-Film or Pre-InterArts/IAT students.
Course Rules: Counts as a repeat of Film 203 w/same topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 118 Sound and Image
3 cr. Undergraduate.
A timebased media arts production course incorporating preceding core Film courses (Film 114, 116, 117), furthering skills and imagination in the integration of image and sound.
Prerequisites: Film 114(P), Film 116(P), 117(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

FILM 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req’d service learning component. Jointly offered with & counts as repeat of Art 150.
General Education Requirements: A, CD
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 201 Introduction to Experimental Media Arts
3 cr. Undergraduate.
Survey of independent media art production in film, video, photography and emerging media from the artist’s point of view. Lectures, screenings, and workshops exploring ideas and techniques relevant to the making of personal statements.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

FILM 203 Media Workshop:
3 cr. Undergraduate.
Lab tutorial consisting of intermedia exercises and class projects. Specific credits announced in Schedule of Classes whenever course is offered.
Prerequisites: none.
Course Rules: May be retaken w/chg in content to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 210 Concepts of Production in the Media Arts
3 cr. Undergraduate.
Introduction to the basic elements of cinema and related media in an inter-arts context through the development of critical and practical skills.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

FILM 220 16mm Filmmaking II
3 cr. Undergraduate.
Pre-portfolio studio in 16mm film production.
Prerequisites: Film 117(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 221 Basic Elements of Filmmaking II
6 cr. Undergraduate.
Theory and practice of 16mm non-sync sound techniques. Emphasis on project development, cinematography, editing, sound recording, audio transfers and mixing.
Prerequisites: grade B or above in Film 220; or cons instr.
Current Offerings: http://uwm.edu/schedule
FILM 222 Introduction to Digital Filmmaking
3 cr. Undergraduate.
Pre-portfolio studio in digital filmmaking and editing techniques.
Prerequisites: admits to Pre-Film/Film prog & Film 116(P), 117(P), & either 114(214)(P) or 210(P); or admits to Inter-Arts/IAT prog & Film 116(P) or 117(P); Art 118(P) & Music 220(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

FILM 231 Concept Development for Film Practice
3 cr. Undergraduate.
A practice-driven course on developing skills for conceptualizing and writing for short-form cinema.
Prerequisites: none.
Current Offerings: [link]

FILM 232 Animation I
3 cr. Undergraduate.
Introduction to single-frame cinematic principles and techniques including drawing, collage, and kinetic analysis for short animated film projects.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

FILM 234 Introduction to the Screenplay
3 cr. Undergraduate.
Approaches to screenwriting from both artistic and professional points of view from the cultivation of an idea to the realization of a scenario.
Prerequisites: none.
Current Offerings: [link]

FILM 250 Internship/Professional Practice
3 cr. Undergraduate.
This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series.
Prerequisites: May be retaken to max of 6 cr.
Current Offerings: [link]

FILM 251 Theory/Practice Workshop:
3-4 cr. Undergraduate.
Development of techniques for projects in the theory and practice of media arts.
Prerequisites: none.
Course Rules: May be retaken w/chg in content to 9 cr max.
Current Offerings: [link]

FILM 255 Introduction to Digital Arts
3 cr. Undergraduate.
Pre-portfolio studio in digital art practices.
Prerequisites: admits to Pre-Film/Film prog & Film 116(P), 117(P); & either 114(214)(P) or 210(P); or admits to Inter-Arts/IAT prog & Art 118(P) & Music 220(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

FILM 257 Study Abroad:
1-12 cr. Undergraduate.
Production and special problems designed to provide relevant course work for a study abroad program in the media arts.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Fall 2014, Spring 2013, Spring 2012, Fall 2011.
Current Offerings: [link]

FILM 299 Independent Study
1-6 cr. Undergraduate.
Individual program of supervised study in media arts theory & practice.
Prerequisites: cons instr.
Course Rules: May be retaken for cr.
Last Taught: Fall 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: [link]

FILM 301 Conversations with Filmmakers and Critics
3 cr. Undergraduate.
Lectures, screenings, and discussions by contemporary filmmakers and critics. Subjects of presentation will include the contemporary state of the art, the condition of the industry, and the relations of film to a critique of the culture.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

FILM 302 Video in the Classroom
3 cr. Undergraduate.
Introduction to creative and technical processes of video making. Planning and production of topical video projects with small team of K-12 students and teacher.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Current Offerings: [link]

FILM 303 Current Topics in Media Arts Production:
3 cr. Undergraduate.
Lectures, screening, discussions, and workshops in media arts production from the artist's point of view. Development of ideas/proposals for possible production in subsequent film department courses.
Prerequisites: Film 201(P); or cons instr.
Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [link]

FILM 305 Digital Cinema and the Computer
3 cr. Undergraduate.
Relation of digital cinema to the cultural, philosophical, and technical implications of computing technology.
Prerequisites: none.
General Education Requirements: A, OWCB
Current Offerings: [link]
FILM 309 Theory & Practice of Media Literacy
3 cr. Undergraduate.
Explores the relationship between image, sound and text in light of an expanded sense of 'writing,' 'image-making,' and 'critique' in the digital age.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

FILM 314 Topics in Conceptual Studies:
3 cr. Undergraduate.
Consideration of issues in critical studies including ethnographic film, found-footage filmmaking, experimental documentary or surrealist film.
Prerequisites: Film 114(214)(P) or 210(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Summer 2011, Fall 2010, Summer 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

FILM 316 Filmmaker as Theorist/Practitioner:
3 cr. Undergraduate.
Examines filmmakers particularly engaged in theory/practice investigations of film form including Chantal Ackerman, Jean-Luc Godard, Sergei Eisenstein, Laura Mulvey & Trinh T. Minh-ha.
Prerequisites: Film 114(214)(P) or 210(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

FILM 318 Film and the Visual and Performing Arts:
3 cr. Undergraduate.
Consideration of film's relationship to a specific art form, its formal similarities and historical intersections including film & painting, film & dance, film & music.
Prerequisites: Film 114(214)(P) or 210(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

FILM 319 Film Genres:
3 cr. Undergraduate.
Formal investigation of what comprises a film genre across both national & international contexts. Critical writing & production assignments will foreground conventions & their transformations in film history.
Prerequisites: Film 114(214)(P) or 210(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 320 Structures of Film
3 cr. Undergraduate.
Advanced examination of structural dimensions in film, including space, time, causality, image, and sound. Practical techniques explore structural possibilities for creative expression in film.
Prerequisites: Film 114(214)(P) & 210(P); or cons instr.
Last Taught: Fall 2010, Fall 2009, Fall 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

FILM 341 Theory/Practice Seminar:
3-4 cr. Undergraduate.
Theoretical/practical approaches to film and video production.
Prerequisites: admis to upper-level film classes per portfolio review, or cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 380 Media Arts Module:
3 cr. Undergraduate.
Post-portfolio course introducing specialized production skills in film, video, audio or new genres.
Prerequisites: admis to upper level course per portfolio review or cons instr. In case of over-enrollment, admission based on gpa in major.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Current Offerings: http://uwm.edu/schedule

FILM 399 Advanced Independent Study
1-6 cr. Undergraduate.
Individual program of supervised study for the advanced student of film and/or video.
Prerequisites: admis to upper-level film classes per portfolio review & cons instr.
Course Rules: May be retaken for cr.
Current Offerings: http://uwm.edu/schedule

FILM 410 Junior Project
6 cr. Undergraduate.
Individual production projects in film or video facilitated by critiques and technical demonstrations tailored to student needs.
Prerequisites: admis to upper level course per portfolio review or cons instr. In case of over-enrollment, admission based on grade point average in major.
Current Offerings: http://uwm.edu/schedule

FILM 420 Intermediate Media Arts Module:
3 cr. Undergraduate/Graduate.
Intermediate level course in specialized production skills in film, video, audio or new genres.
Prerequisites: admis to upper level course per portfolio review; jr st or cons instr. In case of over-enrollment, admission based on gpa in major.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 434 Film Aesthetics:
3 cr. Undergraduate.
Consideration of a particular aesthetic aspect of film including performance, sound, decor, frame/sequence, color, narrative & narration, temporality.
Prerequisites: jr st., Film 210(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
FILM 450 Advanced Internship/Professional Practice
1-6 cr. Undergraduate/Graduate.
This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series.
Prerequisites: admis to upper-level Film classes per portfolio review, cons instr.
Course Rules: May be retaken to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

FILM 455 Integrated Film/Video Exploration
6 cr. Undergraduate/Graduate.
A study of the relationship between film/video production and film/video analysis, team taught by an artist and a critic.
Prerequisites: jr st. Film majors: portfolio review and/or cons instr; non-film majors: cons instr.
Course Rules: Jointly offered with ArtHist/English/JMC 310.
Current Offerings: http://uwm.edu/schedule

FILM 460 Advanced Media Arts Module:
3 cr. Undergraduate/Graduate.
Advanced-level course in specialized production skills in film, video, audio or new genres.
Prerequisites: admits to upper level course per portfolio review; jr st or cons instr. In case of over-enrollment, admission based on gpa in major.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

FILM 470 Advanced Media Arts Workshop:
1-6 cr. Undergraduate/Graduate.
Individual student projects exploring portable and studio media arts production techniques. Students will submit production proposals for faculty approval.
Prerequisites: Film 389(P); or grad st; or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

FILM 497 Study Abroad:
1-12 cr. Undergraduate.
Production and special problems designed to provide relevant course work for a study abroad program in the media arts.
Prerequisites: admis to upper-level Film classes per portfolio review, or cons instr.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

FILM 509 Senior Project I
3 cr. Undergraduate.
Pre-production/production of individual media arts projects facilitated by critiques and work sessions.
Prerequisites: min 12 cr of upper-level film/video/animation/new genres electives, including 3 cr. of Portfolio Production electives; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 510 Senior Project II
6 cr. Undergraduate.
Continuation of capstone project started in Film 509. Emphasis on production and post-production, facilitated by critiques, work sessions and preparations for a public presentation.
Prerequisites: Successful completion of Film 509(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILM 512 Senior Project in Conceptual Studies
6 cr. Undergraduate.
Capstone seminar investigates and interrogates relationship between filmmaking, theory and history. Archival research and critical analysis will produce final multimedia project.
Prerequisites: Film 320(P), 455(P).
Current Offerings: http://uwm.edu/schedule

FILM 514 Graduate Film Studio/Seminar III
3 cr. Graduate.
A study of the relationship between film/video production and film/video analysis, team taught by an artist and a critic.
Prerequisites: grad st & cons advising faculty member.
Course Rules: May be repeated to max of 9 cr.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

FILM 520 Graduate Media Arts Workshop I
3 cr. Graduate.
Faculty advised film production studio course to introduce and familiarize students with specific crew member responsibilities of collaborative filmmaking.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FILM 570 Professional Practice: Production
3 cr. Graduate.
Professional production internship with area film-related enterprise to develop specialized technical skills or practical experience in film exhibition.
Prerequisites: grad st.
Course Rules: May be repeated to max of 9 cr.
Last Taught: Fall 2010, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

FILM 700 Professional Practice: Production
3 cr. Graduate.
Each student to pursue a film production project to completion. Lectures and readings in seminar format to address issues facing independent film production and distribution.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FILM 710 Graduate Film Studio/Seminar I
3 cr. Graduate.
Faculty advised film production studio course. Instruction in advanced production skills and directed reading relevant to the nature of proposed film projects.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

FILM 712 Graduate Film Studio/Seminar II
3 cr. Graduate.
Faculty advised film production studio course. Instruction in advanced production skills and directed reading relevant to the nature of proposed film projects.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

FILM 714 Graduate Film Studio/Seminar III
3 cr. Graduate.
Faculty advised film production studio course to introduce and familiarize students with specific crew member responsibilities of collaborative filmmaking.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

FILM 720 Graduate Media Arts Workshop I
1-6 cr. Graduate.
Conceptualization and production of student-initiated media arts projects.
Prerequisites: grad st film
Course Rules: Retakable to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
Animation, BA

The BA in Animation will prepare graduates to secure positions as animators and multimedia artists in the moving image production industry.

Graduates of this program will be able to:

1. Apply knowledge of artistic principles, conventions, methods, and practices through the creation and production of animated works of art;
2. Utilize the core concepts, capabilities, and tools of animation technology;
3. Apply critical and creative thinking skills in a variety of contexts;
4. Identify ways in which animation can be utilized in both creative and practical contexts;
5. Assure high quality production values in the work that they create;
6. Demonstrate the ability to communicate effectively, produce projects individually and collaboratively, engage fully in the entire production process, from concept to distribution.

The BA in Animation totals 120 credits, with 57 academic credits in the program - 45 required credits and 12 elective credits. This degree is administered through the Department of Film, Video, Animation and New Genres in the Peck School of the Arts. Applicants entering the program with an AAS degree from the Animation Department in the School of
University of Wisconsin-Milwaukee

Media and Creative Arts at Milwaukee Area Technical College (MATC) may be granted admission at the third-year level.

Students in the department of Film, Video, Animation, and New Genres are required to have a laptop computer and video editing software.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>Animation Requirements</td>
<td></td>
<td>57</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

The BA in Animation is a 120-credit degree that includes 45 credits of university requirements, 18 credits of general electives and 57 credits in Animation and Filmmaking.

University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
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</tr>
<tr>
<td>Competencies</td>
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<td>2</td>
</tr>
<tr>
<td>Oral and Written Communication – Part A and Part B</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Distribution Requirements</td>
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<td>1</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences (Must include one lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Additional Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Credits in Peck School of the Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Credits</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>45</td>
</tr>
</tbody>
</table>

1. Learn more about the General Education Requirements (p. ).
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

BA Animation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 114</td>
<td>Film and Experience: The Filmmaker and the Viewer</td>
<td>3</td>
</tr>
<tr>
<td>FILM 116</td>
<td>Listening and Recording</td>
<td>3</td>
</tr>
<tr>
<td>FILM 117</td>
<td>Filmmaking Technologies and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FILM 118</td>
<td>Sound and Image</td>
<td>3</td>
</tr>
<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts</td>
<td>3</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILM 231</td>
<td>Concept Development for Film Practice</td>
<td>3</td>
</tr>
<tr>
<td>FILM 232</td>
<td>Animation I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Stop-Motion Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module: (The Business of Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 460</td>
<td>Advanced Media Arts Module:</td>
<td>3</td>
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<tr>
<td>FILM 509</td>
<td>Senior Project I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 510</td>
<td>Senior Project II</td>
<td>6</td>
</tr>
</tbody>
</table>

Foundation Review ¹

Animation Electives

Choose 12 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

1. Satisfies UWM’s Cultural Diversity requirement.

Applicants Entering the Program with an AAS degree in Animation from Milwaukee Area Technical College (MATC)

Applicants entering the program with an AAS degree in Animation from MATC will be granted admission at the third-year level.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 116</td>
<td>Listening and Recording</td>
<td>3</td>
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<tr>
<td>FILM 118</td>
<td>Sound and Image</td>
<td>3</td>
</tr>
<tr>
<td>FILM 303</td>
<td>Current Topics in Media Arts Production</td>
<td>3</td>
</tr>
</tbody>
</table>

¹. Foundation Review takes place at the end of each semester. Once students complete all the required coursework, they are allowed to present their work to the faculty.

². Satisfies UWM’s Cultural Diversity requirement.
## Animation, BA

### BA Animation Recommended Film Sequence

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FILM 114</td>
<td>Film and Experience: The Filmmaker and the Viewer</td>
<td>3</td>
</tr>
<tr>
<td>FILM 116</td>
<td>Listening and Recording</td>
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</tr>
<tr>
<td>FILM 117</td>
<td>Filmmaking Technologies and Techniques</td>
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<td><strong>Credits</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>FILM 118</td>
<td>Sound and Image</td>
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<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts</td>
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</tr>
<tr>
<td>FILM 231</td>
<td>Concept Development for Film Practice</td>
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<td><strong>Credits</strong></td>
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<tr>
<td><strong>Year 2</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILM 232</td>
<td>Animation I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
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<tr>
<td>FILM 341</td>
<td>Theory/Practice Seminar:</td>
<td>3-4</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Stop-Motion Animation)</td>
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<td><strong>Credits</strong></td>
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<tr>
<td><strong>Year 3</strong></td>
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<td><strong>Fall</strong></td>
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<tr>
<td>Choose one</td>
<td>Media Arts Module:</td>
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<tr>
<td>FILM 380</td>
<td>Media Arts Module:</td>
<td>3</td>
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<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module:</td>
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<tr>
<td>FILM 460</td>
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</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Experimental Animation)</td>
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<td></td>
<td><strong>Credits</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>Choose one</td>
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<tr>
<td><strong>Year 4</strong></td>
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### Applicants Entering the Program with an AAS degree in Animation from Milwaukee Technical College (MATC)

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<td><strong>Fall</strong></td>
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<td>FILM 116</td>
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<td>Sound and Image</td>
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<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Experimental Animation)</td>
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<td>FILM 460</td>
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<td><strong>Year 4</strong></td>
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<td><strong>Credits</strong></td>
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### Location:

Theatre 120

### Hours:

9AM-4PM Monday through Thursday, 9AM-2PM Fridays

(closed on university holidays)

### Contact:

(414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection,
campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Film Department Animation Program Advisor, Brooke Thiele
swelstad@uwm.edu

Film, BFA

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Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>Film and Experience: The Filmmaker and the Viewer</td>
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<tr>
<td>FILM 116</td>
<td>Listening and Recording</td>
<td>3</td>
</tr>
<tr>
<td>FILM 117</td>
<td>Filmmaking Technologies and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FILM 118</td>
<td>Sound and Image</td>
<td>3</td>
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<tr>
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</tr>
<tr>
<td>FILM 231</td>
<td>Concept Development for Film Practice</td>
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<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>FILM 220</td>
<td>16mm Filmmaking II</td>
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University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
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<td>General Education Requirements</td>
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<tr>
<td>Competencies</td>
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<td>Oral and Written Communication – Part A and Part B</td>
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<td>Quantitative Literacy (QL) – Part A and Part B</td>
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<td>Foreign Language</td>
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<td>Distribution Requirements</td>
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<td>Humanities</td>
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<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td>Social Sciences</td>
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</tr>
<tr>
<td>Cultural Diversity</td>
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Electives

<table>
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</tbody>
</table>
Film, Video Animation, and New Genres Electives

Consult your academic advisor in the Peck School of the Arts Student Services Office for electives in the PSOA Core Curriculum and General Education Requirement courses.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FILM 150</td>
<td>Multicultural America</td>
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<td>FILM 203</td>
<td>Media Workshop: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 220</td>
<td>16mm Filmmaking II</td>
<td>3</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILM 232</td>
<td>Animation I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 234</td>
<td>Introduction to the Screenplay</td>
<td>3</td>
</tr>
<tr>
<td>FILM 250</td>
<td>Internship/Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>FILM 251</td>
<td>Theory/Practice Workshop: (subtitle)</td>
<td>3-4</td>
</tr>
<tr>
<td>FILM 255</td>
<td>Introduction to Digital Arts</td>
<td>3</td>
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<tr>
<td>FILM 297</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>FILM 299</td>
<td>Independent Study</td>
<td>1-6</td>
</tr>
<tr>
<td>FILM 301</td>
<td>Conversations with Filmmakers and Critics</td>
<td>3</td>
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<tr>
<td>FILM 302</td>
<td>Video in the Classroom</td>
<td>3</td>
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<tr>
<td>FILM 316</td>
<td>Filmmaker as Theorist/Practitioner: (subtitle)</td>
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<tr>
<td>FILM 318</td>
<td>Film and the Visual and Performing Arts:</td>
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<td>FILM 319</td>
<td>Film Genres:</td>
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<tr>
<td>FILM 320</td>
<td>Foundation Review</td>
<td>3</td>
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<tr>
<td>FILM 334</td>
<td>Animation I</td>
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<tr>
<td>FILM 341</td>
<td>Theory/Practice Seminar: (subtitle)</td>
<td>3-4</td>
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<td>Advanced Media Arts Module: (subtitle)</td>
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<td>1-6</td>
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<td>FILM 420</td>
<td>Intermediate Media Arts Module: (subtitle)</td>
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<td>FILM 434</td>
<td>Film Aesthetics:</td>
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<td>FILM 450</td>
<td>Advanced Internship/Professional Practice</td>
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<tr>
<td>FILM 455</td>
<td>Integrated Film/Video Exploration</td>
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<td>FILM 460</td>
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<td>FILM 470</td>
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<tr>
<td>FILM 497</td>
<td>Study Abroad:</td>
<td>1-12</td>
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<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
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<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
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</tr>
<tr>
<td>MUSIC 420</td>
<td>Advanced Computing and Music</td>
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The following outline will serve as a guide in planning for studies in Film, Video, Animation, and New Genres. Students are encouraged to consult regularly with their school and departmental advisors. All course waivers or changes in the requirements of the major should be directed to a department or school academic advisor and must have the written approval of the department chair.

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<td>University Core (GER) QL-A Requirement</td>
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<td>FILM 118 Sound and Image</td>
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<td>FILM 201 Introduction to Experimental Media Arts</td>
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<td>FILM 231 Concept Development for Film Practice</td>
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<tr>
<td>University Core (GER) QL-A Requirement</td>
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| Year 2                               |         |
| Fall                                 |         |
| FILM 222 Introduction to Digital Filmmaking | 3   |
| Select one of the following:          |         |
| FIlM 220 16mm Filmmaking II          | 3       |
| FILM 232 Animation I                 |         |
| FILM 255 Introduction to Digital Arts |         |
| FVANG Elective                       | 3       |
| Select two of the following:         | 6       |
| ARTHIST 205 History of Film I: Development of an Art (GER-H) | |
| University Core (GER) 3,5            |         |
| PSOA Core Course 2,4                 |         |
| FVANG Elective                       |         |
| University Core (GER) QL-A Requirement | 3   |
| Foundation Review                    | 6       |

| Spring                               |         |
| Production Skills Elective           | 6       |
| Portfolio Production Elective        | 3       |
| University Core 3                    | 6       |

| Year 3                               |         |
| Fall                                 |         |
| FILM 303 Current Topics in Media Arts Production: | 3   |
| Production Skills                    | 3       |
| Portfolio Production                 | 3       |
| University Core 3                    | 6       |

| Spring                               |         |
| Production Skills                    | 3       |
| Contextual Elective                  | 3       |
| FVANG Elective                       | 3       |
| University Core 3                    | 6       |

| Year 4                               |         |
| Fall                                 |         |
| Production Skills                    | 3       |
| Professional Practice/Internship     | 3       |
| FILM 509 Senior Project I            | 3       |
| University Core 3                    | 6       |

| Spring                               |         |
| FILM 510 Senior Project II           | 6       |
| Contextual Elective                  | 3       |
| University Core 3                    | 3       |
| General Elective                     |         |
| Credits                              | 15      |

| Total Credits                        | 120     |
Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Film, Video, Animation and New Genres, Minor
Our undergraduate program of study is committed to helping students develop their creative, conceptual and technical abilities through media: film, video, audio, installation, and new genres. Our goal is for you to become a creative thinker, an informed viewer and an art maker – someone whose imaginative skills are matched by an ability to learn and use the technologies to say something important.

This program is open to all students seeking to complement their major studies by developing skills in moving image/audio production, creative concept development, and media project management skills – skills that are increasingly in demand across multiple fields.

Requirements
After completing the Foundation Requirements, students will complete the remaining six credits of 300-level courses from the elective lists below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FILM 114</td>
<td>Film and Experience: The Filmmaker and the Viewer</td>
<td>3</td>
</tr>
<tr>
<td>FILM 116</td>
<td>Listening and Recording</td>
<td>3</td>
</tr>
<tr>
<td>FILM 118</td>
<td>Sound and Image</td>
<td>3</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILM 231</td>
<td>Concept Development for Film Practice</td>
<td>3</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Digital Filmmaking Workshop)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (DIY Camera Movements)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Screenwriting II)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Documentary Project)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Stop Motion Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Interactive Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Character Design and Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Film Score Studio)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Design for Film: The Art Director)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Experimental Sound Techniques for Recording)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Pre-Production)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module:</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Puppetry)</td>
<td>3</td>
</tr>
</tbody>
</table>

Department Electives
Department electives are separated into four categories:

- Production: this courses build comfort and expertise with tools and technologies while continuing to develop critical thinking and creative expression.
- Portfolio: these course explore topics and/or themes, develop artistry and require students to develop their individual portfolios through the creation of self-authored works.
- Contextual: these courses continue to develop student’s critical thinking and expressive voice by exploring topics and/or themes through screenings, discussions, written assignments and creative media projects.
- Professional Practice: includes internship and other forms of professional practicum.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Animation Studio)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Experimental Narrative)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Experimental Animation)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Collaborative Filmmaking)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Zen and the Art of Filmmaking)</td>
<td>3</td>
</tr>
</tbody>
</table>
Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Performing Arts, MFA: Film

The Milton and Lillian Peck School of the Arts offers the Master of Fine Arts in Performing Arts, an interdisciplinary degree program encompassing graduate studies in film and dance. The curricula in this program include intensive professional training in an individual performance area plus significant interdisciplinary experience in related performance and scholarly fields. All curricula are dedicated to maintaining the most rigorous professional and artistic standards in their disciplines.

The programs currently offered are: film and video production in the Department of Film, Video, Animation and New Genres; and choreography and performance in the Department of Dance.

The curricula offered in the program are designed for serious and talented students who are preparing for careers as professionals in the performing arts or as artist-teachers in advanced training programs. Admission to the programs is highly selective, and all curricula include extensive practical performance experience.

The Helene Zelazo Center for the Performing Arts is the premier performance home for the Peck School of the Arts. It includes the 759-seat Helen Bader Concert Hall, a 3,200 square foot rehearsal room, numerous small ensemble practice rooms, and the Mary L. Nohl Art Galleries.

The School's other facilities include the Fine Arts Center which houses two theatres, a recital hall, and related shop, studio, instructional and practice space, and nearby Mitchell Hall with studio, viewing, and processing facilities for the Department of Film, Video, Animation and New Genres as well as the chamber dance theatre and additional rehearsal, studio, and performance spaces for the departments of Theatre and Dance.

Master of Fine Arts in Performing Arts: Film

The Department of Film, Video, Animation and New Genres offers a graduate program in media arts practice. The curriculum is designed for serious and talented students who are preparing for careers as artists.

Facilities include a complete production studio, with all tools and services necessary for in-house film, digital video and sound work; photography and imaging labs; a digital studio for Internet projects, physical computing, interactivity and other forms of digital and media arts; and space for installation and performance projects. A special feature of the program is our excellent in-house processing facility for black-and-white reversal 16mm film.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.
Master of Fine Arts in Performing Arts: Film

In addition to a series of graduate seminars, students can choose from an array of elective options that include graduate production studios, conceptual studies courses, complementary studies from outside the department, professional practice opportunities in the field and U/G or G electives. Students are expected to originate and produce finished projects on a regular basis, culminating in a thesis presentation.

Admission

In order to be considered for admission to the program, an applicant must meet Graduate School requirements and submit original media-related work that demonstrates technical competence and creative promise.

An applicant whose grade point average or quality of work does not meet Graduate School and Department of Film, Video, Animation and New Genres program standards may be considered for admission on probation. Each student is expected to satisfy deficiency requirements within three enrolled semesters. The Graduate School and the Department of Film, Video, Animation and New Genres graduate program monitor the deficiencies. No course credits earned to make up deficiencies may be counted as program credits required for the degree.

Transfer of Credits

With the approval of the Department of Film, Video, Animation and New Genres graduate program and the Graduate School, an applicant from another institution may be permitted to transfer up to 19 credits toward the total of 48 graduate credits required for the MFA degree.

Major Professor as Advisor

Each student chooses a major professor from the Department of Film, Video, Animation and New Genres graduate faculty to advise and supervise studies. In addition to the major professor, each student’s committee must contain a minimum of two Department of Film, Video, Animation and New Genres graduate faculty members. Any student electing a minimum of nine credits in either Conceptual or Video, Animation and New Genres graduate faculty members. Any committee must contain a minimum of two Department of Film, Video, Animation and New Genres graduate program members. No course credits earned to make up deficiencies may be counted as program credits required for the degree.

Credits and Courses

The minimum Film-MFA degree requirement is 48 graduate credits, (18 cr required, 30 cr elective). It is recommended that students earn 12 credits each semester through full-time attendance on campus.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FILM 710</td>
<td>Graduate Film Studio/Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 712</td>
<td>Graduate Film Studio/Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>FILM 714</td>
<td>Graduate Film Studio/Seminar III</td>
<td>3</td>
</tr>
<tr>
<td>FILM 730</td>
<td>Advanced Research in Film I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 732</td>
<td>Advanced Research in Film II</td>
<td>6</td>
</tr>
</tbody>
</table>

Electives

Select 30 credits with assistance and approval from the Director of Graduate Studies and their Graduate Advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FILM 720</td>
<td>Graduate Media Arts Workshop I</td>
<td>1</td>
</tr>
<tr>
<td>FILM 722</td>
<td>Graduate Media Arts Workshop II</td>
<td>1</td>
</tr>
</tbody>
</table>

FILM 900 Graduate Studio (maximum of 12 credits)

Department of Film, Video, Animation and New Genres Electives (maximum of 30 credits)  
Complementary Studies Electives (maximum of 12 credits)  
Complementary Studies (maximum of 9 credits)  
FILM 700 Professional Practice: Production (maximum of 9 credits)

Total Credits 48

1 A maximum of 9 credits between FILM 720 and FILM 722.
2 These are U/G and G classes in film, video & new genres that are regularly offered by the department, including topics such as 16mm film and video production, screenwriting, lighting, cinematography, audio production, animation, installation, performance and physical computing.
3 Our Conceptual Studies program combines the study of media history, theory, and criticism with the practice of media production. Conceptual Studies credits can be combined with Complementary Studies credits to a maximum of 21 credits.
4 These are UG/G courses offered outside the department that are relevant to a students proposed course of study. If courses inside the Department of Film, Video, Animation and New Genres are closely allied to an area of complementary study, such as Film courses in audio or photography and Music Department courses in electronic composition, they will count toward fulfillment of the Complementary Studies option. Students interested in Complementary Studies are encouraged to discuss their options with the Director of Graduate Studies and their major professor before enrolling in these courses.

Thesis Presentation

Upon recommendation of the major professor and advisory faculty, the student presents a thesis exhibition program of work executed since admission to the program. The exhibition may be held either during the semester in which the student completes coursework for the degree or during the following semester.

Time Limit

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

International Students

On completion of graduate studies, international students are eligible to apply for Optional Practical Training (OPT) for an additional year of practical work experience. If you are interested in OPT, please see an Immigration Coordinator at International Student and Scholar Services in the Center for International Education.


MUSIC

The Department of Music offers undergraduate and graduate programs of study, as well as courses of study in Music Performance (Woodwinds, Brass, Percussion, Strings, Piano, Voice, and Guitar), Music Education, Music History and Literature, and Music Composition and Technology.

We offer a graduate program of study in music, preparing the student for a career in a performing area, music education, music history and literature, conducting, or theory and composition. The Master of Music program permits concentration in performance (voice or instrument), chamber music performance, conducting, music education, music history and literature, theory and composition, collaborative piano (vocal or instrumental), and string pedagogy.

Our Bachelor of Fine Arts (BFA) program is designed for students seeking intensive study to develop those skills needed for a professional career and/or preparation for graduate school. The Bachelor of Arts (BA) degree is designed for students looking for a broad-based understanding of multiple aspects of music in addition to areas outside of the music field. The Minor in Music is designed to provide students with basic knowledge and broad choices in coursework.

Our programs prepare students for careers in the performing arts, music education, music history and literature, conducting, and theory and composition. A conservatory-style department nestled within a leading research university, our professional artist-faculty inspire and frequently collaborate with students on campus and within Wisconsin's cultural capital.

Our faculty and programs maintain strong partnerships with performance organizations in Milwaukee and the surrounding region providing a vibrant urban location that puts students in the cultural mainstream of a thriving and sophisticated metropolis of over one million people. The department is an accredited member of the National Association of Schools of Music (NASM) and provides professional training and personal enrichment as the main focus of the Music curriculum. Visit us at: uwm.edu/arts/music/ (http://uwm.edu/arts/music).

Programs

- Advanced Study in Chamber Music, Graduate Certificate (p. 231)
- Music Education, BFA: EC-A General Music (p. 235)
- Music Education, BFA: EC-A Instrumental and General Music (p. 238)
- Music, BA (p. 241)
- Music, BFA: Collaborative Piano and Vocal (p. 244)
- Music, BFA: Guitar (p. 248)
- Music, BFA: Music Composition and Technology (p. 253)
- Music, BFA: Music History and Literature (p. 256)
- Music, BFA: Piano (p. 260)
- Music, BFA: Strings (p. 264)
- Music, BFA: Voice (p. 269)
- Music, BFA: Winds, Brass, and Percussion (p. 272)
- Music, Minor (p. 276)
- Music, MM (p. 277)
- Music, MM/Library and Information Science, MLIS (p. 279)
- Music, MM: Chamber Music Performance (p. 280)
- Music, MM: Collaborative Piano: Instrumental (p. 282)
- Music, MM: Collaborative Piano: Vocal (p. 283)
- Music, MM: Conducting: Choral Emphasis (p. 284)
- Music, MM: Conducting: Instrumental (p. 286)
- Music, MM: Music Education (p. 287)
- Music, MM: Music History and Literature (p. 289)
- Music, MM: Performance: Guitar (p. 290)
- Music, MM: Performance: Keyboard (p. 292)
- Music, MM: Performance: Percussion (p. 293)
- Music, MM: Performance: String Emphasis (p. 295)
- Music, MM: Performance: Vocal Emphasis (p. 296)
- Music, MM: Performance: Woodwinds, Brass, and Percussion (p. 298)
- Music, MM: String Pedagogy (p. 300)
- Music, MM: Theory and Composition (p. 301)

Peck School of the Arts: Music Scholarships

If you wish to be considered for a Music scholarship, you are encouraged to audition no later than March of the school year preceding your intended matriculation. Lists of suggested repertoire, which can serve as a helpful guideline for your audition, can be obtained from the Peck School of the Arts Department of Music website at: uwm.edu/arts/musical (http://uwm.edu/arts/scholarships) or contact the Music Department at (414) 229-5217.

Midwest Residence Savings

UW-Milwaukee Peck School of the Arts participates in the Midwest Student Exchange Program (http://uwm.edu/undergrad-admission/student-type/out-of-state) (MSEP), which awards reduced tuition (http://uwm.edu/business-financial-services/bursar/tuition-rate-schedules) to Undergraduate and Graduate residents of Illinois, Indiana, Kansas, Michigan, Missouri, Nebraska, and North Dakota.

Illinois residents save even more with an automatic $1,000 Milwaukee Advantage Award (http://uwm.edu/undergrad-admission/student-type/out-of-state).

Minnesota residents are eligible for the Minnesota Reciprocity program and are encouraged to apply (http://www.ohe.state.mn.us/mpg_cfm?PageID=120) as early as possible.

Music for the Non-Major

While professional training is the main thrust of the UWM Music curricula, the department offers many personal enrichment courses for the non-music major. UWM students have the opportunity to participate in a wide range of Performing Organizations such as:

- University Advanced Women's Choir
- Concert Chorale
- Women's Chorus
- University Men's Chorus
- Collegium Musicum
- Gospel Choir
- University Band
- Symphony Band
• Wind Ensemble
• Jazz Band
• Symphony Orchestra
• University Community Orchestra

The following Academic Music Courses are also offered:

• Introduction to Classical Music
• The Concert Experience
• Introduction to World Musics
• American Popular MusiC
• Fundamentals of Music (Theory)
• Class Voice
• Beginning and Intermediate Guitar
• Beginning and Intermediate Piano

Private music lessons are also offered to the non-music major under the following conditions:

1. A successful audition placement into a recognized Music major ensemble.
2. Successful audition placement will allow concurrent registration into an appropriate private performance lesson.
3. Consent of instructor and availability of instructional time.
4. For further information contact the Department of Music at (414) 229-5217.

Music Courses

MUSIC 1 Theory Fundamentals
2 cr. Undergraduate.
Basic music theory covering written proficiency at an introductory level. For music majors needing remedial work. Not for fulfillment of curriculum requirements.
Prerequisites: Music major or cons instr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 30 University Community Band
1 cr. Undergraduate.
A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students.
Prerequisites: Music major.
Course Rules: Music 30 & 31 may be retaken to combined max of 10 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 40 Symphony Band
1 cr. Undergraduate.
Performs symphonic works for band, performing regularly on campus, statewide tours and national conventions.
Prerequisites: Music major; audition; & cons instr.
Course Rules: Music 40 & 41 may be retaken to combined max of 10 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 42 Wind Ensemble
1 cr. Undergraduate.
Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours.
Prerequisites: Music major; audition; & cons instr.
Course Rules: Music 42 & 43 'Wind Ensemble' may be retaken to combined max of 10 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 44 Women's Chorus
1 cr. Undergraduate.
Large women's chorus rehearses and performs women's choral music of various styles, cultures, and historical periods. Open to all women by audition.
Prerequisites: Music major; cons instr; audition.
Course Rules: Music 44 & 45 may be retaken to combined max of 10 sem.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 45 Women's Chorus
3 cr. Undergraduate.
Large women's chorus rehearses and performs women's choral music of various styles, cultures, and historical periods. Open to all women by audition.
Prerequisites: non-Music majors; cons instr; audition.
Course Rules: Music 44 & 45 may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 50 University Men's Choir
1 cr. Undergraduate.
Large men's mixed chorus rehearses and performs both men's and mixed-voice choral music of various styles, cultures, and historical periods.
Prerequisites: Music major; cons instr; audition.
Course Rules: Voice placements 1st wk each sem. Music 50 & 350 may be retaken to combined max of 10 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 52 University Advanced Women's Choir
1 cr. Undergraduate.
Select women's mixed chorus performs both women's and mixed-voice choral music of various styles, cultures, and historical periods. For women with significant choral experience; audition required.
Prerequisites: Music major; cons instr; audition.
Course Rules: Voice placements 1st wk each sem. Music 52 & 352(53) may be retaken to combined max of 10 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 56 Concert Chorale
1 cr. Undergraduate.
This highly select mixed ensemble performs advanced-level music from various styles, cultures, and historical periods and tours annually. Students chosen by competitive audition.
Prerequisites: Music major; audition; & cons instr.
Course Rules: Music 56 may be retaken to combined max of 10 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
MUSIC 62 University Community Gospel Choir
1 cr. Undergraduate.
The gospel choir performs the music of the African-American culture in its many styles and genres. Auditions 1st week each sem.
Prerequisites: cons instr; audition.
Course Rules: May be retaken to max of 10 sem.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 81 University Community Orchestra
2 cr. Undergraduate.
Composed primarily of non-music majors and community members; provides a continuing opportunity for rehearsal and performance.
Prerequisites: non-music major.
Course Rules: Music 81 & 181 may be retaken to combined max of 10 sem.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 100 Introduction to Classical Music
3 cr. Undergraduate.
A guide to understanding and enjoying American popular music from 1900 to the present. Students survey all popular genres and focus on chosen style.
Prerequisites: theory placement exam; Music major; Music 123 (C) & Music 127 (P) with grade of 'C-' or better or equiv.
Course Rules: Aural application of Music 127.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 101 Fundamentals of Music
3 cr. Undergraduate.
An activities approach to music fundamentals through singing, playing, listening, note reading and creativity for the general university student.
Prerequisites: none.
Course Rules: Not accepted as part of a Music major.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 102 American Popular Music
3 cr. Undergraduate.
A guide to understanding and enjoying American popular music from 1900 to the present. Students survey all popular genres and focus on chosen style.
Prerequisites: none.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 106 Foundations of Music
0 cr. Undergraduate.
Engage music major freshman in active discussion in academic and abstract ways necessary to formal music study.
Prerequisites: Freshman Music Majors only.
Course Rules: Fee for 1 cr assessed. Satisfactory/Unsatisfactory only.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 107 Music Convocation
0 cr. Undergraduate.
A general assembly of the Department of Music held Fridays at 12:00 pm during the academic year. Includes musical presentations by Music Department faculty and students as well as guest events.
Prerequisites: Music majors only.
Course Rules: Fee for 1 cr assessed. Satisfactory/Unsatisfactory only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 108 The Concert Experience
3 cr. Undergraduate.
Meets, in part, concurrently with the Music Department Convocation (or similar concerts), concentrates on the concert as an event: history, traditions, form, make-up, and interpretation.
Prerequisites: none.
Course Rules: May not be used as part of the music req for music majors.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 120 Composition Colloquium:
0 cr. Undergraduate.
Guest lectures and workshops with visiting composers and performers presenting current compositional and aesthetic techniques.
Prerequisites: Music major or cons instr.
Course Rules: Fee for 1 cr assessed. May be retaken; 4 sem minimum required for composition majors.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 123 Aural Theory I
1 cr. Undergraduate.
Basic study of sight singing and dictation in diatonic music: solfege, diatonic melodies, primary harmonies, basic rhythms and beat divisions. Aural application of Music 127.
Prerequisites: theory placement exam; Music major; Music 127(C) & Music 001(P) with grade of B or better or equiv.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 124 Aural Theory II
1 cr. Undergraduate.
The singing and dictation of melodies, progressions, and counterpoint with chromatic alteration, modulation, complex rhythmic patterns, 7th chords and inversions. Aural application of Music 128.
Prerequisites: Music Major; Music 128(C), 123(P) & 127(P) with grade of 'C-' or better or equiv.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 127 Materials of Theory I
2 cr. Undergraduate.
Basic study of the elements and diatonic organization of music through music literature.
Prerequisites: theory placement exam; Music major; Music 123 (C) & Music 001(P) with grade of 'C-' or better or equiv.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
MUSIC 128 Materials of Theory II
3 cr. Undergraduate.
Intermediate study of the elements and chromatic organization of music through music literature.
Prerequisites: Music Major; Music 124(C) & 123(P); & 127(P) with grade of 'C-' or better or equiv.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 130 Beginning Piano Level I
3 cr. Undergraduate.
A practical introduction to the piano and musical notation, intended to serve as a sound foundation for further study.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 131 Beginning Piano Level II
3 cr. Undergraduate.
The varying uses of the piano is continued and expanded through reading, technique, interpretation, and theory as based on materials presented in Music 130.
Prerequisites: Music 130(P); cons instr.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 140 Class Voice Level I
3 cr. Undergraduate.
The group study of singing, including posture, breathing, resonance, range and projection through vocal exercises, varied song repertoire and solo singing.
Prerequisites: some knowledge of music helpful but not required; cons instr.
Course Rules: May be retaken to max of 4 cr.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 141 Class Voice Level II
3 cr. Undergraduate.
Continuation for students completing Class Voice Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues.
Prerequisites: Music 140(P), or cons instr; & ability to read notation.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 142 Class Voice for Musical Theater Level I
2 cr. Undergraduate.
Fundamentals of vocal technique, including audition preparation and understanding of Musical Theater repertoire and style.
Prerequisites: Musical Theatre majors; cons. instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 143 Class Voice for Music Theatre Level II
2 cr. Undergraduate.
Continuation of Class Voice for Musical Theatre Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues.
Prerequisites: Music 142(P), or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 150 Beginning Guitar
3 cr. Undergraduate.
Beginning class instruction on guitar as an accompanying instrument for folk and pop songs. Basic chording, strumming, and finger picking.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 151 Intermediate Guitar I
3 cr. Undergraduate.
Intermediate instruction on guitar. Finger picking, barre chord, bass runs, melody playing, and reading music.
Prerequisites: Music 150(345)(P); or cons instr.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 152 Intermediate Guitar II
3 cr. Undergraduate.
Students learn pieces ranging from popular to classical repertoire further developing position playing, moveable chord forms, solo arrangements and accompaniment, accommodating students at a variety of levels.
Prerequisites: Music 151(P), or cons instr; & ability to read notation.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 181 University Community Orchestra
1 cr. Undergraduate.
Provides a continuing opportunity for rehearsal and performance for Music Majors playing secondary instrument(s).
Prerequisites: Music Major playing secondary instrument(s).
Course Rules: Music 81 & 181 may be retaken to combined max of 10 sem.
Current Offerings: http://uwm.edu/schedule

MUSIC 182 Symphony Orchestra
1 cr. Undergraduate.
This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries.
Prerequisites: Music major; audition; & cons instr.
Course Rules: Music 182 & 82 may be retaken to combined max of 10 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
MUSIC 206 Jazz Fundamentals
2 cr. Undergraduate.
Introduction to rhythmic, melodic and harmonic materials related to jazz.
Prerequisites: admis to Jazz Studies prog or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 211 General History of Western Music I
3 cr. Undergraduate.
An introduction to the development of musical styles in western music through the end of the 17th century.
Prerequisites: soph st & 2 sem of music theory.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 212 General History of Western Music II
3 cr. Undergraduate.
The development of music through the 18th and 19th centuries, correlating period styles with contemporary history and other arts.
Prerequisites: soph st, 3 sem of music theory, & Music 211(P).
Current Offerings: http://uwm.edu/schedule

MUSIC 220 Introduction to Computers and Music
3 cr. Undergraduate.
Introduction to digital audio, acoustics, psychoacoustics, electronic music composition, and history. Survey and application of software audio production tools through individual creative projects.
Prerequisites: Music major, previous experience in computers & music; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 225 Materials of Theory III
3 cr. Undergraduate.
Advanced study of the elements and extended chromatic organization of music through music literature.
Prerequisites: Music Major; Music 226(C) & Music 124(P), & 128(P) with grade of 'C-' or better or equiv; successful completion of QL-A, or cons instr.
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 226 Aural Theory III
1 cr. Undergraduate.
Continuation of Music 124. Advanced work developing sight-singing and melodic, contrapuntal, and harmonic dictation as related to music literature. Aural application of Music 225.
Prerequisites: Music Major; Music 225(C), 124(P) & 128(P) with grade of 'C-' or better or equiv.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 230 Form Analysis
3 cr. Undergraduate.
Study of the basic cells used for evolving musical structures. The two-part, three-part, and five-part song forms are analyzed, theme and variation form, song form with trio, sonatina form, sonata allegro form, and the symphonic, concerto, and chamber music structures are discussed and analyzed.
Prerequisites: Music 225(P) & 226(P) with grade of 'C' or better or equiv.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 241 Guitar Technique
1 cr. Undergraduate.
Self-study tools and solutions on performing music accurately to advance and develop skills and expand the relative and absolute sense of touch.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of Music 489 w/same topic.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

MUSIC 242 Fretboard Essentials
2 cr. Undergraduate.
Music theory as it relates to the guitar fingerboard, including major/minor and harmonized scales, triads, 7th chords and inversions, and arpeggios.
Prerequisites: Music major;
Course Rules: Counts as repeat of Music 280 w/same topic.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

MUSIC 244 Basic Diction in Singing
1 cr. Undergraduate.
Principles of the international phonetic alphabet as they apply to the english language and the singing of assigned vocal repertoire.
Prerequisites: admis to Musical Theatre prog; or cons instr.
Last Taught: Spring 2017, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MUSIC 245 Basic and Italian Lyric Diction
1 cr. Undergraduate.
Principles of Basic and Italian lyric diction as taught through the use of the international phonetic alphabet, and the singing of assigned vocal repertoire.
Prerequisites: Music major, or cons instr.
Last Taught: Fall 2017, Fall 2015, Spring 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 246 German and French Lyric Diction
1 cr. Undergraduate.
Principles of German and French lyric diction as taught through use of the international phonetic alphabet, and the singing of assigned vocal repertoire.
Prerequisites: music major, or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 247 French Diction in Singing
1 cr. Undergraduate.
Principles of French lyric diction as taught through use of the International Phonetic Alphabet and the singing of assigned vocal repertoire.
Prerequisites: soph st; Music 244(P) & 245(P), & cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 248 Sight-Reading for Guitar I
1 cr. Undergraduate.
Skill development of sight-reading staff notation for the guitar.
Prerequisites: cons instr, Music major.
Course Rules: Counts as repeat of Music 280 with same topic.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
MUSIC 259 Accompanying
2 cr. Undergraduate.
The piano as an accompanying instrument; study of basic principles of accompanying; sight reading and standard repertoire; transposition; laboratory experience.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 262 Ensemble - Piano
1-2 cr. Undergraduate.
Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on piano. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Current Offerings: http://uwm.edu/schedule

MUSIC 263 Ensemble - Beginning Percussion
1 cr. Undergraduate.
An introduction of percussion instruments to non-percussion music majors. Topics include: technique, percussion in world music, care and maintenance, composing and arranging, repertoire.
Prerequisites: Music major.
Current Offerings: http://uwm.edu/schedule

MUSIC 266 Ensemble - Woodwind
1-2 cr. Undergraduate.
Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartet, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on woodwind. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Current Offerings: http://uwm.edu/schedule

MUSIC 268 Ensemble - Brass
1-2 cr. Undergraduate.
Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on brass. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Current Offerings: http://uwm.edu/schedule

MUSIC 271 Jazz Ensemble
1 cr. Undergraduate.
A performance and laboratory group for the study of jazz ensemble techniques.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 10 cr.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 274 Guitar Repertoire and Ensemble
1 cr. Undergraduate.
Exploration of the guitar ensemble and solo literature. Performance laboratory.
Prerequisites: music majors or cons instr.
Course Rules: May be retaken to combined max of 8 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 275 Keyboard Performance Repertoire
1-2 cr. Undergraduate.
Section 1: piano. Section 2: organ. An analysis of applied piano or organ literature, including representative works from all periods.
Prerequisites: jr st & cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

MUSIC 276 Keyboard Performance Repertoire
1-2 cr. Undergraduate.
Section 1: piano. Section 2: organ. Continuation of Music 275.
Prerequisites: Music 275.
Current Offerings: http://uwm.edu/schedule

MUSIC 278 Afro-Caribbean and Latin American Guitar Styles
2 cr. Undergraduate.
An overview of guitar accompaniment and lead styles used in various Latin-American and Caribbean genres.
Prerequisites: cons instr.
Course Rules: Counts as repeat of Music 489 with same topic.
Current Offerings: http://uwm.edu/schedule

MUSIC 280 Special Studies in Music:
1-3 cr. Undergraduate.
Specific topic will be announced in the Schedule of Classes when offered.
Prerequisites: none.
Course Rules: May be retaken for cr when course content is different.
Current Offerings: http://uwm.edu/schedule

MUSIC 297 Study Abroad:
1-12 cr. Undergraduate.
Studio and special studies designed to provide relevant course work for a study abroad program in music.
Prerequisites: cons instr & acceptance for Study Abroad prog.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Fall 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 300 Literary Aspects of Rock and Roll
3 cr. Undergraduate.
Examines the evolution of the Rock and Roll song as an original American literary musical art form.
Prerequisites: Music 102(P), or cons instr.
General Education Requirements: A
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
MUSIC 301 Music Theory for Interdisciplinary Studies
3 cr. Undergraduate.
An activities approach to music fundamentals through singing, playing, listening, note reading and creativity for interdisciplinary arts students.
Prerequisites: jr st; admis to Inter-Arts/IAT prog or cons instr.
Course Rules: Not accepted as part of a Music major.
Current Offerings: http://uwm.edu/schedule

MUSIC 302 Jazz Theory I
2 cr. Undergraduate.
Beginning level study of jazz theory. Course will involve extensive composition, performance and analysis.
Prerequisites: admis to Jazz Studies prog or cons instr.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 303 Jazz History
3 cr. Undergraduate.
History of jazz from its conception to the present day.
Prerequisites: admis to Jazz Studies prog or cons instr.
Last Taught: Spring 2015, Spring 2013, Fall 2011, Spring 2010.
Current Offerings: http://uwm.edu/schedule

MUSIC 304 Jazz Arranging
3 cr. Undergraduate.
Basic jazz arranging techniques for various size ensembles.
Prerequisites: admis to Jazz Studies prog or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 305 Jazz Theory II
2 cr. Undergraduate.
Advanced study of jazz theory. Course will involve extensive composition and analysis.
Prerequisites: Music 302(P).
Current Offerings: http://uwm.edu/schedule

MUSIC 306 General History of Western Music III
3 cr. Undergraduate.
The development of music at the end of the 19th century and throughout the 20th century, including art music in the western tradition and american popular and vernacular musics.
Prerequisites: jr st, 3 sem music theory, Music 211(P) & 212(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 307 Selected Topics in Music History and Literature:
3 cr. Undergraduate/Graduate.
An in-depth study of selected genres in western music, the composers and their works. Topic to be announced in Schedule of Classes.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 semesters of music theory.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

MUSIC 309 American Folk and Popular Music
2 cr. Undergraduate/Graduate.
A survey of American folk and popular music from 1750 to the present. Study of European and African music elements and their intersection in American musical forms.
Prerequisites: jr st or cons instr.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 310 Introduction to World Musics
3 cr. Undergraduate/Graduate.
Study of musical genres from selected world cultures with an emphasis on musical sound and structure, and performance in cultural context.
Prerequisites: jr st, successful completion of OWC-A (English 102 or equiv); or cons instr.
General Education Requirements: OWC-B, A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 311 Music of the Baroque Era
3 cr. Undergraduate/Graduate.
A general or topical survey of music from the baroque era in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.
Last Taught: Spring 2018, Fall 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUSIC 312 Music of the Classic Era
3 cr. Undergraduate/Graduate.
A general or topical survey of music from the classical era in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.
Last Taught: Spring 2017, Fall 2015, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MUSIC 313 Music of the Romantic Era
3 cr. Undergraduate/Graduate.
A general or topical survey of music from the romantic era in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem music theory.
Last Taught: Fall 2017, Spring 2016, Fall 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 314 Music since 1900
3 cr. Undergraduate/Graduate.
A general or topical survey of music since 1900, in which selected composers and their compositions will be studied.
Prerequisites: jr st; Music 211(P), 212(P), 307(P); 4 sem music theory.
Current Offerings: http://uwm.edu/schedule

MUSIC 317 Introduction to American Music
3 cr. Undergraduate/Graduate.
Introductory survey of folk, indigenous, popular and art music of the United States.
Prerequisites: jr st or grad st.
Last Taught: Fall 2010.
Current Offerings: http://uwm.edu/schedule
MUSIC 321 Counterpoint
3 cr. Undergraduate.
Introduction to species counterpoint and contrapunl techniques in music. Study of and exercises in contrapuntally oriented musical structures: passacaglia, chaconne, chorale prelude, canon, and fugue.
Prerequisites: Music 230(P).
Current Offerings: http://uwm.edu/schedule

MUSIC 323 Instrumental and Choral Orchestration
3 cr. Undergraduate.
Techniques of arranging for voice, strings, woodwinds, brass, and percussion. Study of representative scores, demonstrations of suitable arrangements.
Prerequisites: Music 225(P), 226(P), & 220(P) for composition majors, (R) for others; or knowledge of computer music notation as determined by instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MUSIC 326 Advanced Aural Theory
1 cr. Undergraduate/Graduate.
Continuation of Aural Theory 226 with advanced work in the development of aural skills and dictation in linear and vertical aspects of diatonic, chromatic and atonal music.
Prerequisites: jr st; Music 225(P) & 226(P).
Current Offerings: http://uwm.edu/schedule

MUSIC 327 Analog and Digital Synthesis I
3 cr. Undergraduate/Graduate.
Introduction to analog and digital electronic sound synthesis, recording and audio mixing, acoustics and electronic music history. Individual work in analog and digital music studios.
Prerequisites: jr st, music major; or cons instr; Music 220(R).
Current Offerings: http://uwm.edu/schedule

MUSIC 328 Digital Synthesis and Systems II
3 cr. Undergraduate/Graduate.
Application of digital sound media and advanced midi; computing, synthesis, synthesizers, sampling, digital recording and editing methods. Individual projects utilizing the digital music studios.
Prerequisites: jr st; Music 327(P); previous experience in computers & music; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 330 Improvisation I
1 cr. Undergraduate.
Beginning application of rhythmic, melodic and harmonic materials related to jazz improvisation.
Prerequisites: cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 331 Improvisation II
1 cr. Undergraduate.
Intermediate application of rhythmic, melodic and harmonic materials related to jazz improvisation.
Prerequisites: Music 330(R); or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 332 Piano Pedagogy I
3 cr. Undergraduate.
Introduction to Piano Pedagogy; overview of learning theories and methodologies related to piano instruction; technical/musical skills and repertoire for the preschool to KS pianist.
Prerequisites: Piano Pedagogy or Performance Major or cons instr
Last Taught: Fall 2009.
Current Offerings: http://uwm.edu/schedule

MUSIC 333 Piano Pedagogy II
3 cr. Undergraduate.
In-depth training for pianists in piano pedagogy. Teaching the elementary to late-elementary piano student and older beginners in individual and group settings.
Prerequisites: Piano Pedagogy or Performance Major or cons instr.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSIC 334 University Community Band
3 cr. Undergraduate.
A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students.
Prerequisites: non-Music major.
Course Rules: Music 30 & 334(31) may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 340 Symphony Band
3 cr. Undergraduate.
Symphony band performs symphonic works for band, performing regularly on campus, statewide tours and national conventions.
Prerequisites: non-Music major; audition; & cons instr.
Course Rules: Music 40 & 340(41) may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 342 Wind Ensemble
3 cr. Undergraduate.
Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours.
Prerequisites: non-Music major; audition; & cons instr.
Course Rules: Music 42 & 342 'Wind Ensemble' may be retaken to combined max of 10 sem.
Last Taught: Spring 2015, Spring 2013, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

MUSIC 348 Sight-Reading for Guitar II
1 cr. Undergraduate.
Solutions for accurate sight-reading of style-specific repertoire.
Prerequisites: cons instr, Music major
Course Rules: Counts as repeat of Music 280 with same topic.
Current Offerings: http://uwm.edu/schedule
MUSIC 349 Classical Guitar History and Literature
3 cr. Undergraduate.
A guided analytical and historical survey of the music, composers, performers, cultures, and literature for guitar from the sixteenth to twenty-first centuries.
Prerequisites: jr st; Music 226(P); 248(R), 348(R); cons instr.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

MUSIC 350 University Men's Choir
3 cr. Undergraduate.
Large men's/mixed chorus rehearses and performs both mens and mixed-voice choral music of various styles, cultures, and historical periods.
Open to all men by audition.
Prerequisites: audition; cons instr.
Course Rules: May be retaken to a max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 352 University Advanced Women's Choir
3 cr. Undergraduate.
Select women's mixed chorus performs both women's and mixed-voice choral music of various styles, cultures, and historical periods. For women with significant choral experience; audition required.
Prerequisites: non-Music major; cons instr; audition.
Course Rules: Voice placements 1st wk each sem. Music 52 & 53 may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 353 Conducting
2 cr. Undergraduate.
Manual technique and rehearsal techniques for both choral and instrumental groups. Class forms a laboratory ensemble.
Prerequisites: jr st; Music major; Music 230(P) & cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 354 Instrumental Conducting
2 cr. Undergraduate.
Continuation of Music 353 with emphasis on conducting techniques: study and analysis of orchestral or wind band scores, with practical application for music education and performance majors.
Prerequisites: Music 353(P) or 253(P).
Current Offerings: http://uwm.edu/schedule

MUSIC 357 Choral Conducting
2 cr. Undergraduate.
Advanced techniques of gesture, score study, style periods and performance practice, rehearsal and vocal techniques.
Prerequisites: Music Major; Music 353(P); Mus Ed 462(C); or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 361 Ensemble - Piano
1-2 cr. Undergraduate.
Opportunity for pianists to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on piano. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 365 Ensemble - Woodwind
1-2 cr. Undergraduate.
Opportunity for woodwind students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on woodwind. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 367 Ensemble - Brass
1-2 cr. Undergraduate.
Opportunity for brass students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on brass. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 369 Ensemble - Strings
1-2 cr. Undergraduate.
Opportunity for string students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers on stringed instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 370 Chamber Ensemble - Mixed
1-2 cr. Undergraduate.
Opportunity for students of mixed instrument families to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.
Prerequisites: cons instr.
Course Rules: Open to advanced performers of all instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
MUSIC 377 Song Literature I: Italy, Germany, France, Great Britain
2 cr. Undergraduate.
Art songs and vocal literature of Italy, Great Britain, Germany and France through recordings, student performances and lectures. Given alternate years in fall semester.
Prerequisites: 2 yrs collegiate voice study & cons instr.
Last Taught: Fall 2017, Fall 2015, Spring 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 378 Song Literature II: United States and Select European Countries
2 cr. Undergraduate.
Art songs and vocal literature of the United States, European countries, South America, and Spain through recordings, student performances and lectures. Given alternate years in spring semester. Given alternate years in spring semester.
Prerequisites: 2 yrs collegiate voice study & cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 382 Symphony Orchestra
3 cr. Undergraduate.
This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries.
Prerequisites: non-Music major; audition; & cons instr.
Course Rules: Music 182 & 382(82) may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 395 Concert Chorale
3 cr. Undergraduate.
This highly select mixed ensemble performs advanced-level music from various styles, cultures, and historical periods and tours annually. Students chosen by competitive audition.
Prerequisites: non-Music major; sophomore standing or higher; cons instr; audition.
Course Rules: Music 395(S7) may be retaken to combined max of 10 sem.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 404 Improvisation III
1 cr. Undergraduate.
Application of melodic and harmonic materials of jazz to the keyboard.
Prerequisites: Music 331(R) or inst cons.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUSIC 405 Improvisation IV
1 cr. Undergraduate.
Continued advanced application of rhythmic, melodic and harmonic materials related to jazz improvisation.
Prerequisites: Music 404(R); or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 409 Folk Music in Contemporary Culture
3 cr. Undergraduate/Graduate.
American Folk Music and its impact on contemporary culture.
Prerequisites: jr st, Music 102(P); or cons instr.
Course Rules: Counts as repeat of Music 280/680 with the same topic.
Last Taught: Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 410 Topics in World Music:
3 cr. Undergraduate/Graduate.
Topics vary. Covers the music of a single country, geographic region, or aspects of a particular topic in world music in depth.
Prerequisites: jr st & Music 310(P); or grad st or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

MUSIC 415 Choral Literature Survey
2 cr. Undergraduate.
A historical overview of choral literature with emphasis on major composers and styles of each period. Repertoire studied is selected from the WSMA Contest list.
Prerequisites: jr st; Music major; Music 230(P); Music 357(C); Mus Ed 462(C); & cons instr.
Last Taught: Spring 2016, Fall 2014, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 420 Advanced Computing and Music
3 cr. Undergraduate/Graduate.
Advanced application of microcomputers in midi, digital synthesis, electronic orchestration, and varied media interfaces as applied to composition. Individual work in computer music lab
Prerequisites: jr st; music major; Music 220(P); previous experience in computers & music; or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 421 Materials of Contemporary Music
3 cr. Undergraduate/Graduate.
Study and analysis of the techniques and styles in contemporary music.
Prerequisites: jr st & Music 230(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 434 Piano Pedagogy III
3 cr. Undergraduate.
In-depth training for pianists in piano pedagogy. Teaching the intermediate/late-intermediate and adult student in individual and group settings.
Prerequisites: Piano Pedagogy or Performance Major or cons instr.
Current Offerings: http://uwm.edu/schedule
MUSIC 435 Piano Pedagogy IV
3 cr. Undergraduate.
In-depth training for pianists in piano pedagogy. Teaching the advancing piano student in individual lessons. Advanced technical and musical skills, technical studies and repertoire.
Prerequisites: Piano Pedagogy or Performance Major or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 444 Vocal Pedagogy I
2 cr. Undergraduate/Graduate.
Techniques for training the singing voice derived from the study of vocal anatomy, various pedagogy texts, and the observation and teaching of voice lessons.
Prerequisites: jr st; cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 445 Vocal Pedagogy II
2 cr. Undergraduate/Graduate.
Advanced techniques for vocal teaching; including anatomy, pedagogic observation and advanced study of acoustics explore their relationship to voice pedagogue, laryngologists/speech-language pathologists, and vocal pathology.
Prerequisites: jr st; Music 444(446)(P); or cons instr.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

MUSIC 446 Piano Pedagogy
2 cr. Undergraduate/Graduate.
Techniques for training the elementary level piano student, derived from the study of methods and materials, discussion and guest lectures. Given alternate years.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 447 String Pedagogy in the Studio
2 cr. Undergraduate/Graduate.
Topics include: technique (instrument hold, shifting, vibrato, spiccato, etc.), historical survey (tartini, baillot, auer, flesch, etc). Information delivery techniques, master teacher profile, recent trends.
Prerequisites: jr st; cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 448 Piano Pedagogy
2 cr. Undergraduate.
Techniques for training the elementary level piano student, derived from the study of methods and materials, discussion and guest lectures. Given alternate years.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 449 Women in Music:
3 cr. Undergraduate/Graduate.
Women's roles in musical life; their contributions as performers and composers to various musical styles and repertoires; comparison of their activities with those of men. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

MUSIC 450 Introduction to Musicology
3 cr. Undergraduate/Graduate.
Study of the development of modern musicological methodology and its fields of research including ethnomusicology.
Prerequisites: jr st; cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 452 Collegium Musicum
1-2 cr. Undergraduate/Graduate.
Vocal and instrumental groups devoted to the study and performance of music from twelfth through the eighteenth century.
Prerequisites: jr st; cons instr.
Course Rules: Music majors enroll for 1 cr per sem; others for 1 or 2 cr.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 454 Contemporary Music Ensemble
1 cr. Undergraduate.
Study of various forms in contemporary music, with an emphasis on indeterminacy and improvisation. Works composed in the course are performed on a concert during the semester.
Prerequisites: cons instr.
Course Rules: May be retaken to 4 cr max.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUSIC 457 Opera Theatre
3 cr. Undergraduate/Graduate.
A concentrated study of the literature and techniques for the musical stage.
Prerequisites: cons instr & major teacher.
Course Rules: May be retaken to max of 4 sem. Students not needing cr should enroll for 0 cr; those needing 1-3 cr should enroll for a specific number of cr. Students who enroll for 0 cr will be assessed a fee for 1 credit.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 458 Finger-Style Guitar: History and Performance
3 cr. Undergraduate.
Through multi-media lecture/presentations and hands-on instruction, this class will familiarize students with the history and performance of finger-style guitar.
Prerequisites: cons instr, Music major.
Course Rules: Counts as repeat of Music 280 with same topic.
Current Offerings: http://uwm.edu/schedule

MUSIC 489 Workshop:
1-4 cr. Undergraduate/Graduate.
Specific topic announced in the Schedule of Classes.
Prerequisites: jr st; additional prereq announced each offering.
Current Offerings: http://uwm.edu/schedule
MUSIC 497 Study Abroad:  
1-12 cr. Undergraduate/Graduate.  
Studio and special studies designed to provide relevant course work for a study abroad program in music.  
Prerequisites: jr st; cons instr & acceptance for Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic to max of 12 cr.  
Last Taught: Spring 2017, Spring 2015, Spring 2013, Fall 2012.  
Current Offerings: http://uwm.edu/schedule

MUSIC 509 Certificate Program in Rock and Roll Studies Capstone  
3 cr. Undergraduate.  
Individual rock and roll studies projects facilitated by critiques and work sessions.  
Prerequisites: min 12 cr of core and elective curriculum of Rock and Roll Studies curriculum, or cons instr.  
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

MUSIC 553 Advanced Conducting I  
2 cr. Undergraduate/Graduate.  
Advanced study and analysis of conducting techniques. Score reading and interpretation of masterpieces from the standard repertoire.  
Prerequisites: sr st & cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

MUSIC 554 Advanced Conducting II  
2 cr. Undergraduate/Graduate.  
Continuation of Music 553.  
Prerequisites: sr st, Music 553(P) & cons instr.  
Current Offerings: http://uwm.edu/schedule

MUSIC 559 The Wind Band: Its History and Literature  
3 cr. Undergraduate/Graduate.  
Examination of origins and historical significance of the wind band, including a survey of its instrumentation and literature.  
Prerequisites: jr st; cons instr.  
Last Taught: Spring 2018, Fall 2016, Fall 2015, Spring 2015.  
Current Offerings: http://uwm.edu/schedule

MUSIC 561 Advanced Chamber Music  
1-3 cr. Undergraduate/Graduate.  
Upper level undergraduate and graduate students to perform and study the chamber literature (duets, trios, quartets, etc).  
Prerequisites: jr st; cons instr.  
Course Rules: Open to performance majors. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken to max of 9 cr.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

MUSIC 611 Music of the Medieval Era  
3 cr. Undergraduate/Graduate.  
A general or topical survey of medieval music, including the study of representative works, medieval theory and performance practices.  
Prerequisites: jr st, Music 211(P), 212(P), 307(P), & 4 sem Music theory.  
Current Offerings: http://uwm.edu/schedule

MUSIC 612 Music of the Renaissance and Early Modern Era  
3 cr. Undergraduate/Graduate.  
A general or topical survey of renaissance and early modern music, including the study of representative works, renaissance theory and performance practices.  
Prerequisites: jr st; Music 211(P), 212(P), 307(P) & 4 sem Music theory.  
Current Offerings: http://uwm.edu/schedule

MUSIC 620 Advanced Percussion Pedagogy  
1-2 cr. Undergraduate/Graduate.  
Techniques for developing and teaching mallet and stick control. Model lesson procedures; methods, music (solo and ensemble) and equipment selection.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule

MUSIC 659 Junior Recital  
0 cr. Undergraduate.  
Independent supervised preparation and performance on recital program as determined by performance instructor.  
Prerequisites: jr st; cons instr.  
Course Rules: Fee for 1 cr assessed.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

MUSIC 660 Senior Recital:  
2 cr. Undergraduate.  
Independent supervised preparation and performance in recital to fulfill degree requirements.  
Prerequisites: sr st & recital hearing before area faculty.  
Course Rules: Students in the multiple woodwinds performance major may fulfill the requirement for two senior recitals (1 cr for primary instrument and 2 cr for secondary instrument) by enrolling in two sections of Music 660 during the same sem. Students not needing cr should enroll for 0 cr; those needing 1-2 cr should enroll for a specific number of cr. Students who enroll for 0 cr will be assessed fee for 1 credit. May be retaken to max of 3 cr or two sem.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

MUSIC 680 Special Studies in Music:  
1-3 cr. Undergraduate/Graduate.  
Specific topic will be announced in Schedule of Classes when offered.  
Prerequisites: jr st or cons instr.  
Course Rules: May be retaken w/chg in topic to max of 9 cr.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

MUSIC 691 Senior Thesis  
2 cr. Undergraduate/Graduate.  
Prerequisites: sr st. Not available for grad cr at this time.  
Last Taught: Fall 2015, Fall 2012, Fall 2010, Spring 2010.  
Current Offerings: http://uwm.edu/schedule
MUSIC 693 Apprenticeship:
1-4 cr. Undergraduate/Graduate.
Open to select advanced students who will work as paraprofessionals under the guidance of a program designed jointly by the student, the music department curriculum committee, and a professional mentor approved by the curriculum committee.
Prerequisites: jr st; cons curric comm.
Current Offerings: http://uwm.edu/schedule

MUSIC 699 Advanced Independent Work (Undergraduate)
1-3 cr. Undergraduate.
Enroll for a specific number of credits.
Prerequisites: cons dept chair.
Course Rules: May be retaken for cr.
Current Offerings: http://uwm.edu/schedule

MUSIC 703 Graduate Theory Review
3 cr. Graduate.
A course for graduate students to include tonal/atonal theory, keyboard harmony, sight singing and ear training. The course may not be taken to fulfill a graduate music degree requirement.
Prerequisites: grad st; recom of theory faculty.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 704 Graduate Music History
3 cr. Graduate.
An intensive study of selected musical styles and representative repertory in the western tradition from the middle ages through the present, with a focus on listening and score study, the comparison of musical styles from different periods, and discussion of important historical trends.
Prerequisites: grad st; recom of music history faculty.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 715 Choral Literature
3 cr. Graduate.
In-depth investigation of choral repertoire from 1450 to present day, including a study of major genres, composers, styles, and performance practice.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

MUSIC 718 Violin and Viola Pedagogy Level I
2 cr. Graduate.
A systematic methodology for taking a student through the formative stages of violin and viola playing. Lecture classes, observation of group and individual lessons, supervised teaching in lab setting.
Prerequisites: grad st or cons instr; Music major.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUSIC 719 Violin and Viola Pedagogy Level II
2 cr. Graduate.
A systematic methodology for taking a student from the formative stages of violin and viola playing through the technically and musically more advanced levels. Lecture classes, observation of group and individual instruction, supervised teaching in lab setting.
Prerequisites: grad st; music major; Music 718(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 720 Violin Pedagogy Level III
2 cr. Graduate.
Advanced emphasis on the teaching of advanced scales, significant violin etudes and major repertoire. Lecture and demonstration classes, observation of group and individual instruction, supervised teaching in lab setting.
Prerequisites: grad st; Music 719(P); or cons instr.
Last Taught: Fall 2016, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 721 Viola Pedagogy Level III
2 cr. Graduate.
Advanced emphasis on the teaching of advanced scales, significant etudes (Kreutzer & Campagnoli), orchestral excerpts as teaching etudes, and selected study of advanced viola repertoire. Lecture and demonstration classes, observation of group and individual lessons, supervised teaching in lab setting.
Prerequisites: grad st; Music 719(P); or cons instr.
Last Taught: Fall 2015, Fall 2011, Fall 2001, Fall 2000.
Current Offerings: http://uwm.edu/schedule

MUSIC 722 Cello Pedagogy Level I
2 cr. Graduate.
A systematic methodology for taking a student from the first lessons through the formative stage of cello playing. Lecture classes, observation of group and individual lessons, supervised teaching in lab setting.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
MUSIC 723 Cello Pedagogy Level II
2 cr. Graduate.
A systematic methodology for taking a student from the formative stage of cello playing through the technically and musically more advanced level. Specific skills include how to teach vibrato and shifting. Lecture classes, observation of group and individual instruction, supervised teaching in a lab setting.
Prerequisites: grad st; Music 722(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 724 Cello Pedagogy Level III
2 cr. Graduate.
Advanced emphasis on the teaching of advanced scales, significant etudes and selected study of major repertoire. Lecture and demonstration classes; observation of group and individual instruction, supervised teaching in a lab setting.
Prerequisites: grad st; Music 723(P); or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

MUSIC 730 University Community Band
1 cr. Graduate.
A concert band that performs concerts on and off campus. Designed as a continuing playing experience for students. Music 730 may be retaken to combined max of 6 sem.
Prerequisites: grad st; cons instr; audition.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

MUSIC 731 Contemporary Composition Techniques
3 cr. Graduate.
Contemporary compositional techniques; their theoretical, aesthetic, and historical relationship. Advanced analysis of scores utilizing these techniques.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

MUSIC 732 Score Reading
3 cr. Graduate.
Reading at the piano from full score. Procedure and practice in piano reduction are studied and applied. The classical, romantic, and contemporary periods are emphasized.
Prerequisites: grad st; some ability at key board.
Current Offerings: http://uwm.edu/schedule

MUSIC 740 Symphony Band
1 cr. Graduate.
Performs symphonic works for band, performing regularly on campus, statewide tours and national conventions.
Prerequisites: grad st & cons instr.
Course Rules: For Music majors with advanced playing experience.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 741 Guitar Technique
1 cr. Graduate.
Class provides self-study tools and solutions on performing music accurately to advance and develop skills and expand the relative and absolute sense of touch.
Prerequisites: grad st; or cons instr.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

MUSIC 742 Fretboard Essentials
2 cr. Graduate.
Music theory as it relates to the guitar fingerboard, including major/minor and harmonized scales, triads, 7th chords and inversions, and arpeggios.
Prerequisites: grad st; or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 744 Graduate Theory Seminar
3 cr. Graduate.
Current theoretical approaches to a wide range of musical styles.
Prerequisites: grad st; diagnostic test or Music 703 with grade of B or better.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Spring 2013.
Current Offerings: http://uwm.edu/schedule

MUSIC 749 Classical Guitar History and Literature
3 cr. Graduate.
A guided analytical and historical survey of the music, composers, performers, cultures, and literature for guitar from the sixteenth to twenty-first centuries.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

MUSIC 750 University Men's Choir
1 cr. Graduate.
Large men's/mixed chorus rehearses and performs both men's and mixed-voice choral music of various styles, cultures, and historical periods. Open to all men by audition. Voice placements will take place in the 1st wk each semester. May be retaken to combined max of 6 sem.
Prerequisites: audition; cons instr.
Last Taught: Spring 2018, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 751 Advanced Piano Repertoire I
2 cr. Graduate.
Advanced study of the piano repertoire, including works of all representative periods.
Prerequisites: grad st; Music 276.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUSIC 752 Advanced Piano Repertoire II
2 cr. Graduate.
Advanced study of the piano repertoire, including works of all representative periods.
Prerequisites: grad st; Music 751(P).
Current Offerings: http://uwm.edu/schedule
MUSIC 753 Advanced Song Literature I
2 cr. Graduate.
Art songs and vocal literature of Italy, Great Britain, Germany and France through recordings, student performances and lectures. Given alternate years in fall semester.
Prerequisites: grad st & cons instr.
Last Taught: Fall 2017, Fall 2015, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUSIC 754 Advanced Song Literature II
2 cr. Graduate.
Art songs and vocal literature of the United States, European countries, South America, and Spain through recordings, student performances and lectures. Given alternate years in spring semester.
Prerequisites: grad st; Music 753(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 755 Advanced Instrumental Repertoire I: Strings
2 cr. Graduate.
Comprehensive study of the solo and ensemble literature for string instruments through study, performance, and listening.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSIC 756 Advanced Instrumental Repertoire II: Strings
2 cr. Graduate.
Comprehensive study of solo and ensemble literature for string instruments through study, performance, and listening.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 757 Advanced Instrumental Repertoire I: Brass and Woodwinds
2 cr. Graduate.
Comprehensive study of the solo and ensemble literature for brass and woodwind instruments through study, performance, and listening.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 758 Advanced Instrumental Repertoire II: Brass and Woodwinds
2 cr. Graduate.
Comprehensive study of the solo and ensemble literature for brass and woodwind instruments through study, performance, and listening.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 762 Contemporary Music Ensemble
3 cr. Graduate.
For music majors with advanced instrumental and vocal competence. Rehearsals and concert series devoted to complex works by contemporary composers.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MUSIC 763 Advanced Percussion Performance Repertoire
2 cr. Graduate.
A comprehensive study of the solo and ensemble repertoire for tympani/percussion through study, performance and listening.
Prerequisites: grad st; Music 279 or cons instr.
Last Taught: Fall 2011, Spring 2000, Fall 1999, Fall 1990.
Current Offerings: http://uwm.edu/schedule

MUSIC 765 Advanced Instrumental Repertoire I: Guitar
2 cr. Graduate.
Comprehensive study of the solo and ensemble literature for guitar through study, performance, and listening.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 766 Advanced Instrumental Repertoire II: Guitar
2 cr. Graduate.
Continuing study of solo and ensemble literature for guitar through study, performance, listening.
Prerequisites: grad st; Music 765(P); cons instr
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 769 Graduate Choral Conducting I
2 cr. Graduate.
Study of conducting problems in choral works of divergent styles/periods. Projects assigned to meet specific student need.
Prerequisites: grad st; admis to MM choral perf or music ed (choral emphasis); UG choral cond course(s); prof cond exp; cons instr.
Last Taught: Fall 2015, Fall 2013, Spring 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSIC 770 Graduate Choral Conducting II
2 cr. Graduate.
Continuing study of conducting problems in choral works of divergent styles/periods. Projects assigned to meet specific student need.
Prerequisites: grad st; Music 769(P) or 553(P); cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 771 Graduate Choral Conducting III
2 cr. Graduate.
Advanced analysis of architectural, stylistic and gestural concerns in choral works of divergent styles/periods. Projects assigned to meet specific student need. Supervised conducting time with student's own ensemble.
Prerequisites: grad st; Music 770(P) or 554(P).
Last Taught: Fall 2016, Spring 2014, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

MUSIC 772 Advanced Instrumental Conducting
2 cr. Graduate.
Study of conducting problems in instrumental works of all periods. Projects will be assigned to meet the background and needs of students. Practical experience will be gained by conducting university groups.
Prerequisites: grad st & Music 554.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
MUSIC 781 University Community Orchestra
1 cr. Graduate.
Rehearsal and performance of orchestral music. Intended for non-music majors, music majors playing their secondary instrument, and community members.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

MUSIC 782 Symphony Orchestra
1 cr. Graduate.
For music majors with advanced playing experience. Rehearsals are devoted to reading orchestral literature of the 18th, 19th, and 20th centuries.
Prerequisites: grad st & cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 789 Wind Ensemble
1 cr. Graduate.
Prerequisites: grad st & cons instr.
Course Rules: For Music majors with advanced playing experience.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 795 Concert Chorale
1 cr. Graduate.
This highly select mixed ensemble performs advanced level music from all periods of choral literature, utilizing instruments when appropriate. Auditions take place during the first week of each new semester.
Prerequisites: grad st; audition & cons instr.
Course Rules: May be retaken to combined max of 6 sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 797 Vocal Jazz Ensemble
1 cr. Graduate.
Jazz arrangements of standard popular songs, including ballads, swing, bebop, and current fusion styles, performed with rhythm section accompaniment.
Prerequisites: grad st, cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 798 University Advanced Women’s Choir
1 cr. Graduate.
For women with significant choral experience; audition required.
Prerequisites: grad st, cons instr; audition.
Course Rules: Voice placements take place during first week of each new semester. May be retaken to combined max of 6 sem.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MUSIC 799 Advanced Independent Work
1-3 cr. Graduate.
The student must apply for scheduling advanced independent work with the graduate committee, if possible during the semester preceding the project.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 806 Chamber Music Master Class
1 cr. Graduate.
Student participation and stage performance of chamber music with discussion of critiques by institute faculty and guest artists.
Prerequisites: grad st; admis to ICM, writ cons director of ICM.
Course Rules: May be repeated to max of 4 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 811 Seminar In Baroque Music
3 cr. Graduate.
Investigation of problems of the Music of the Baroque era with reference to the evolution of musical styles in Western Europe from 1600-1750.
Prerequisites: grad st; cons instr
Current Offerings: http://uwm.edu/schedule

MUSIC 829 Seminar: Historical Perspectives On Violin, Viola And Cello Pedagogy
2 cr. Graduate.
Traces evolution of modern instruments and teaching methods, and explores interdisciplinary tools and resources for the string teacher.
Prerequisites: grad st; Music 720(P), 721(P), 724(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

MUSIC 835 Chamber Music Coaching
2 cr. Graduate.
Weekly ensemble coaching by ICM faculty and guest artists. Public performance required.
Prerequisites: grad st; admis to ICM; writ cons director of ICM.
Course Rules: May be repeated to a max of 8 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSIC 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

MUSIC 911 Seminar In Musicology I
3 cr. Graduate.
Research seminar devoted to the investigation of musical problems. May serve as a basis for developing thesis projects, research papers, and lecture-recitals.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

MUSIC 990 Research of Thesis
1-3 cr. Graduate.
Thesis or thesis equivalent in music history, recital, lecture-recital, public performance, or composition. Approval of subject and assignment to staff member by the graduate committee.
Prerequisites: grad st.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule
MUSIC 991 Recital And Lecture Demonstration  
1 cr. Graduate.  
Public recital and lecture demonstration for string pedagogy students.  
Approval of subject by student’s major teacher and the music graduate committee required.  
**Prerequisites:** grad st; cons instr  
**Course Rules:** Open only to string pedagogy students.  
**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSIC 999 Research (Independent Work)  
1-3 cr. Graduate.  
Approval of project and assignment to staff member by graduate committee.  
**Prerequisites:** grad st.  
**Last Taught:** Fall 2017, Spring 2017, Summer 2015, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

## Music Education Courses

### MUS ED 249 Diction Survey  
2 cr. Undergraduate.  
Survey of Diction for Music Education. An in depth study of IPA covering germanic, romance and other languages as needed.  
**Prerequisites:** none.  
**Last Taught:** Fall 2016, Fall 2015, Spring 2014, Spring 2013.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 260 Making Music Connections with Children  
3 cr. Undergraduate.  
Experiencing music through interactive participation by singing, listening, moving, creating, and playing classroom instruments. Collaboratively teach multiethnic music for children in class.  
**Prerequisites:** jr st; admis to School of Educ; or cons instr.  
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 331 Keyboard Skills for Music Educators I  
1 cr. Undergraduate.  
Functional use of the keyboard for accompanying, sight reading and improvising  
**Prerequisites:** Music Major; Music 128(P) with grade of ‘C-’ or better or equiv; or cons instr.  
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 332 Keyboard Skills for Music Educators II  
1 cr. Undergraduate.  
Functional use of the keyboard for accompanying and reading open score.  
**Prerequisites:** Mus Ed 331(P) or cons instr.  
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 350 Introduction to Teaching Music  
2 cr. Undergraduate.  
Exploration of the profession of music teaching including observation in area music programs. Successful exit audition required for admission to the certification program.  
**Prerequisites:** Music Major; Music 124(P); & 128(P).  
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 351 Folk Instrument Techniques for the Music Classroom  
2 cr. Undergraduate.  
Practical experience with folk and recreational-instruments, e.g., autoharp, dulcimer, guitar. Methods and materials for use with children and adults.  
**Prerequisites:** Music Major; admis to teacher cert prog; or cons instr.  
**Last Taught:** Fall 2017, Spring 2016, Fall 2014, Fall 2012.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 352 Technology in Music Education  
2 cr. Undergraduate.  
Awareness of music education software and hardware to incorporate technology into planning, implementation and assessment of musical learning experiences.  
**Prerequisites:**  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 385 Guitar Pedagogy  
2 cr. Undergraduate.  
Studies in the pedagogy of guitar for class and private studios.  
**Prerequisites:** jr st; cons instr.  
**Last Taught:** Spring 2017, Spring 2015, Spring 2013, Spring 2011.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 450 Field Experience in Music Education  
2 cr. Undergraduate.  
Experience working with diverse student populations in cooperating schools to address issues of urban teaching.  
**Prerequisites:** Music Major; admis to teacher cert prog.  
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 451 Teaching Instrumental Music: Elementary and Middle Levels  
2 cr. Undergraduate.  
Group ensemble pedagogical techniques in elementary and middle schools; survey of band and orchestra literature; marching and jazz techniques; organization and administration of instrumental music.  
**Prerequisites:** Music Major; admis to teacher cert prog.  
**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 452 String Pedagogy  
1 cr. Undergraduate.  
Survey of string pedagogy, methods, and materials.  
**Prerequisites:** Music Major; admis to teacher cert prog; 1 sem of stringed instrument; or cons instr.  
**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### MUS ED 455 Positive Approaches: Music Education Classroom Management  
1 cr. Undergraduate.  
Stimulate thinking as evidenced by verbalizations demonstrating ability to logically analyze and criticize behavior.  
**Prerequisites:** admis to teacher cert prog.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
MUS ED 458 Musicals and Choirs for Young Voices
2 cr. Undergraduate.
Explore musical literature and techniques for choirs in the elementary grades. Design your own musical and assess the educational value of published materials.
Prerequisites: Music Major; admis to teacher cert prog; or cons instr.
Current Offerings: http://uwm.edu/schedule

MUS ED 460 Teaching Elementary General Music
3 cr. Undergraduate.
Methods, materials, and observation of teaching general music in grades pre K-5.
Prerequisites: Music Major; admis to teacher cert prog; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUS ED 461 Teaching Secondary General Music
2 cr. Undergraduate.
Methods and materials for teaching classroom music; work with creating, performing, and listening techniques; model course designs; related arts/humanities format; and appropriate resources. Sixth grade through adult.
Prerequisites: Music Major; admis to teacher cert prog; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUS ED 462 Teaching Secondary Choral Music
3 cr. Undergraduate.
Methods and techniques for teaching choral music; work with organization choral program, auditioning, choosing music, program planning; rehearsal techniques, public relations, and setting up a choral library. Sixth grade through adult.
Prerequisites: Music Major; admis to teacher cert prog; Music 357(C); or cons instr.
Current Offerings: http://uwm.edu/schedule

MUS ED 463 Teaching Instrumental Music: Secondary
2 cr. Undergraduate.
Group ensemble pedagogical techniques in secondary schools; survey of band and orchestra literature; marching and jazz techniques; organization and administration of the instrumental music program.
Prerequisites: Music Major; admis to teacher cert prog; or cons instr.
Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUS ED 477 Student Teaching in Music - Elementary Level
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUS ED 478 Student Teaching in Music - Secondary Level
1-9 cr. Undergraduate.
Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUS ED 479 Seminar in Student Teaching
1 cr. Undergraduate.
A seminar meeting to review teacher field observations, portfolio development, and preparation of resume and job application materials.
Prerequisites: Music Major; admis to teacher cert prog; and program approval.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUS ED 680 Special Studies in Music Education:
1-3 cr. Undergraduate/Graduate.
Current issues in music education techniques, pedagogy, and practice at all levels of music teaching. Variable Topics.
Prerequisites: admis to U/G MusEd prog or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

MUS ED 710 Research in Music Education
3 cr. Graduate.
Qualitative and quantitative methods in music education research.
Prerequisites: grad st
Last Taught: Spring 2016, Fall 2013, Summer 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

MUS ED 777 Foundations of Music Education
3 cr. Graduate.
Studies in the history and philosophy of music education, aesthetics, and basic research design. Discussion of current curricular practices as compared with traditional music education.
Prerequisites: grad st.
Last Taught: Fall 2016, Spring 2015, Spring 2013, Summer 2011.
Current Offerings: http://uwm.edu/schedule

MUS ED 778 Recent Developments in Music Education
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

MUS ED 780 General Music Methods and Materials
2 cr. Graduate.
New approaches to secondary general music--particularly jr high related arts/humanities, films, filmstrip packages, records and book resources. Development of teaching units.
Prerequisites: grad st.
Last Taught: Fall 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUS ED 781 Seminar in Elementary Music
2-3 cr. Graduate.
Study of the principal approaches to teaching elementary classroom music. Work with appropriate resources.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule
MUS ED 782 Music Education Seminar:
1-3 cr. Graduate.
Special offerings on subjects not covered by the basic seminars and other elective music education courses.
Prerequisites: grad st.
Last Taught: Fall 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUS ED 783 World Music Drumming: Level 1
3 cr. Graduate.
Perform and teach hand drumming ensembles from West Africa and the Caribbean.
Prerequisites: cons instr.
Current Offerings: http://uwm.edu/schedule

MUS ED 784 World Music Drumming: Level 2
3 cr. Graduate.
Learn additional drum ensembles and songs from West Africa, Zimbabwe, the Caribbean, and Brazil. Play xylophone and flute pieces from these areas.
Prerequisites: Mus Ed 783 or cons instr.
Current Offerings: http://uwm.edu/schedule

MUS ED 785 World Music Drumming: Level 3
3 cr. Graduate.
Perform and lead drum, xylophone, flute ensembles and songs from Ghana and the Caribbean.
Prerequisites: Mus Ed 784 or cons instr.
Current Offerings: http://uwm.edu/schedule

MUS ED 799 Independent Study in Music Education
1-3 cr. Graduate.
Detailed independent work under a major professor in an area of Music Education not covered by available courses.
Prerequisites: grad st & cons instr.
Last Taught: Summer 2015, Spring 2014, Spring 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUS ED 990 Thesis or Final Project
1-6 cr. Graduate.
Formal written thesis, lecture/recital, major annotated bibliography, curriculum synthesis, or other type of music education project. Must submit proposal to advisor in Music Education and be approved by the Graduate Committee.
Prerequisites: grad st.
Course Rules: Retakeable to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

Music Performance Courses

MUSPERF 1 Fundamentals of Piano:
1 cr. Undergraduate.
Small group instruction in piano fundamentals. Course has two progressive levels.
Prerequisites: Music major; audition principal instrument; successful completion of lower level, or cons instr.
Course Rules: May be retaken w/chg in topic to max of 2 cr. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 2 Fundamentals of Organ
1 cr. Undergraduate.
Small group instruction in fundamentals of organ. Course has one level with max of 1 cr.
Prerequisites: music major; audition principal instrument; or cons instr.
Course Rules: Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 3 Fundamentals of Harpsichord
1 cr. Undergraduate.
Small group instruction in fundamentals of harpsichord. Course has one level with max of 1 cr.
Prerequisites: music major; audition principal instrument; or cons instr.
Course Rules: Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 21 Fundamentals of Flute
1 cr. Undergraduate.
Small group instruction in fundamentals of flute. Course has one level with max of 1 cr.
Prerequisites: Music major; audition principal instrument; or cons instr.
Course Rules: Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 22 Fundamentals of Oboe and Bassoon
1 cr. Undergraduate.
Small group instruction in fundamentals of oboe and bassoon. Course has one level with max of 1 cr.
Prerequisites: Music major; audition principal instrument; or cons instr.
Course Rules: Repeat of level only by prior cons instr.
Last Taught: Spring 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUSPERF 23 Fundamentals of Clarinet
1 cr. Undergraduate.
Small group instruction in fundamentals of clarinet. Course has one level with max of 1 cr.
Prerequisites: Music major; audition principal instrument; or cons instr.
Course Rules: Repeat of level only by prior cons instr.
Last Taught: Spring 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
MUSPERF 24 Fundamentals of Saxophone  
1 cr. Undergraduate.  
Small group instruction in fundamentals of saxophone. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Last Taught: Spring 2017, Fall 2016, Spring 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 31 Fundamentals of French Horn  
1 cr. Undergraduate.  
Small group instruction in fundamentals of french horn. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 32 Fundamentals of Trumpet or Cornet  
1 cr. Undergraduate.  
Small group instruction in fundamentals of trumpet or cornet. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Last Taught: Fall 2016, Fall 2015, Spring 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 33 Fundamentals of Trombone  
1 cr. Undergraduate.  
Small group instruction in fundamentals of trombone. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 34 Fundamentals of Baritone  
1 cr. Undergraduate.  
Small group instruction in fundamentals of baritone. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Last Taught: Spring 2011.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 35 Fundamentals of Tuba  
1 cr. Undergraduate.  
Small group instruction in fundamentals of tuba. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 41 Fundamentals of Violin  
1 cr. Undergraduate.  
Small group instruction in fundamentals of violin. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 42 Fundamentals of Viola  
1 cr. Undergraduate.  
Small group instruction in fundamentals of viola. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Last Taught: Fall 2015, Fall 2013, Fall 2012, Fall 2010.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 43 Fundamentals of Cello  
1 cr. Undergraduate.  
Small group instruction in fundamentals of cello. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 44 Fundamentals of Double Bass  
1 cr. Undergraduate.  
Small group instruction in fundamentals of double bass. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 45 Fundamentals of Harp  
1 cr. Undergraduate.  
Small group instruction in fundamentals of harp. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 51 Fundamentals of Percussion  
1 cr. Undergraduate.  
Small group instruction in fundamentals of percussion. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 61 Fundamentals of Composition  
1 cr. Undergraduate.  
Small group instruction in fundamentals of composition. Course has one level with max of 1 cr.  
Prerequisites: Music major; audition principal instrument; or cons instr.  
Course Rules: Repeat of level only by prior cons instr.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 101 Lessons in Piano  
1 cr. Undergraduate.  
Private lessons in piano. Course has eight progressive performance levels.  
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.  
Course Rules: May be retaken w/chg in topic to 3 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule
MUSPERF 102 Lessons in Organ:
1 cr. Undergraduate.
Private lessons in organ. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 103 Lessons in Harpsichord:
1 cr. Undergraduate.
Private lessons in harpsichord. Course has eight progressive performance levels.
Prerequisites: music major or non-major; audition principal instrument; successful completion of each lower level; cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 111 Lessons in Voice:
1 cr. Undergraduate.
Private lessons in voice. Course has four progressive performance levels.
Prerequisites: Music major or non-music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 121 Lessons in Flute:
1 cr. Undergraduate.
Private lessons in flute. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 122 Lessons in Oboe:
1 cr. Undergraduate.
Private lessons in oboe. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2015, Spring 2015, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUSPERF 123 Lessons in Clarinet:
1 cr. Undergraduate.
Private lessons in clarinet. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 124 Lessons in Saxophone:
1 cr. Undergraduate.
Private lessons in saxophone. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 125 Lessons in Bassoon:
1 cr. Undergraduate.
Private lessons in bassoon. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 131 Lessons in French Horn:
1 cr. Undergraduate.
Private lessons in french horn. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 132 Lessons in Trumpet:
1 cr. Undergraduate.
Private lessons in trumpet. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
MUSPERF 133 Lessons in Trombone:
1 cr. Undergraduate.
Private lessons in trombone. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max.
Current Offerings: http://uwm.edu/schedule

MUSPERF 134 Lessons in Euphonium:
1 cr. Undergraduate.
Private lessons in euphonium. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max.
Current Offerings: http://uwm.edu/schedule

MUSPERF 135 Lessons in Tuba:
1 cr. Undergraduate.
Private lessons in tuba. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max.
Current Offerings: http://uwm.edu/schedule

MUSPERF 141 Lessons in Violin:
1 cr. Undergraduate.
Private lessons in violin. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 142 Lessons in Viola:
1 cr. Undergraduate.
Private lessons in viola. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 143 Lessons in Cello:
1 cr. Undergraduate.
Private lessons in cello. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2015, Fall 2013, Fall 2009, Spring 2009.
Current Offerings: http://uwm.edu/schedule

MUSPERF 144 Lessons in Double Bass:
1 cr. Undergraduate.
Private lessons in double bass. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 145 Lessons in Harp:
1 cr. Undergraduate.
Private lessons in harp. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 146 Lessons in Guitar--Classical:
1 cr. Undergraduate.
Private lessons in a non-principal guitar style. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max.
Current Offerings: http://uwm.edu/schedule

MUSPERF 147 Lessons in Guitar--Finger-Style:
1 cr. Undergraduate.
Private lessons in a non-principal guitar style. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
MUSPERF 148 Lessons in Guitar--Jazz:
1 cr. Undergraduate.
Private lessons in a non-principal style. Course has eight progressive levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 149 Lessons in Guitar--Flamenco:
1 cr. Undergraduate.
Private lessons in a non-principal style. Course has eight progressive performance levels.
Prerequisites: Music majors only; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 151 Lessons in Percussion:
1 cr. Undergraduate.
Private lessons in percussion. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 201 Lessons in Piano:
1 cr. Undergraduate.
Private lessons in piano. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 202 Lessons in Organ:
1 cr. Undergraduate.
Private lessons in organ. Course has eight progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 203 Lessons in Harpsichord:
1 cr. Undergraduate.
Private lessons in harpsichord. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2008.
Current Offerings: http://uwm.edu/schedule

MUSPERF 211 Lessons in Voice:
1 cr. Undergraduate.
Private lessons in voice. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 221 Lessons in Flute:
1 cr. Undergraduate.
Private lessons in flute. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 222 Lessons in Oboe:
1 cr. Undergraduate.
Private lessons in oboe. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 223 Lessons in Clarinet:
1 cr. Undergraduate.
Private lessons in clarinet. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
MUSPERF 224 Lessons in Saxophone:
1 cr. Undergraduate.
Private lessons in saxophone. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 225 Lessons in Bassoon:
1 cr. Undergraduate.
Private lessons in bassoon. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSPERF 231 Lessons in French Horn:
1 cr. Undergraduate.
Private lessons in french horn. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 232 Lessons in Trumpet:
1 cr. Undergraduate.
Private lessons in trumpet. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 233 Lessons in Trombone:
1 cr. Undergraduate.
Private lessons in trombone. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 234 Lessons in Euphonium:
1 cr. Undergraduate.
Private lessons in euphonium. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

MUSPERF 235 Lessons in Tuba:
1 cr. Undergraduate.
Private lessons in tuba. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 241 Lessons in Violin:
1 cr. Undergraduate.
Private lessons in violin. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 242 Lessons in Viola:
1 cr. Undergraduate.
Private lessons in viola. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 243 Lessons in Cello:
1 cr. Undergraduate.
Private lessons in cello. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2016, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule
MUSPERF 244 Lessons in Double Bass:
1 cr. Undergraduate.
Private lessons in double bass. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 245 Lessons in Harp:
1 cr. Undergraduate.
Private lessons in harp. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 246 Lessons in Guitar--Classical:
1 cr. Undergraduate.
Private lessons in a guitar style. Course has eight progressive performance levels.
Prerequisites: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 247 Lessons in Guitar--Finger-Style:
1 cr. Undergraduate.
Private lessons in a guitar style. Course has eight progressive performance levels.
Prerequisites: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 248 Lessons in Guitar--Jazz:
1 cr. Undergraduate.
Private lessons in a guitar style. Course has eight progressive performance levels.
Prerequisites: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 249 Lessons in Guitar--Flamenco:
1 cr. Undergraduate.
Private lessons in guitar. Course has eight progressive performance levels.
Prerequisites: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2013, Fall 2011, Spring 2011, Spring 2010.
Current Offerings: http://uwm.edu/schedule

MUSPERF 251 Lessons in Percussion:
1 cr. Undergraduate.
Private lessons in percussion. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 261 Lessons in Composition:
1 cr. Undergraduate.
Private lessons in composition. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 301 Lessons in Piano:
2 cr. Undergraduate.
Private lessons in piano. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 302 Lessons in Organ:
2 cr. Undergraduate.
Private lessons in organ. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule
MUSPERF 304 Lessons in Collaborative Piano-Vocal:
2 cr. Undergraduate.
Private lessons in Collaborative Piano-Vocal. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSPERF 306 Jazz Piano:
2 cr. Undergraduate.
Lessons in Jazz Piano. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2014, Fall 2013, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MUSPERF 311 Lessons in Voice:
2 cr. Undergraduate.
Private lessons in voice. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 315 Brass Pedagogy and Techniques
3 cr. Undergraduate.
Prepares students to teach brass instruments in K-12 school settings. Classroom instruction in horn, trumpet, trombone, euphonium, tuba and related brass instruments.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of MusPerf 31, 32, 33, 34, & 35.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 316 String Pedagogy and Techniques
3 cr. Undergraduate.
Prepares students for classroom instruction in teaching violin, viola, cello and string bass with appropriate pedagogical and repertoire choices for all K-12 school.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of MusPerf 41, 42, 43, 44, and Mus Ed 452.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 317 Woodwind Pedagogy and Techniques
3 cr. Undergraduate.
Prepares students for classroom instruction in flute, oboe, clarinet, bassoon and saxophone with appropriate pedagogical and repertoire choices for all K-12 school.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of MusPerf 21, 22, 23, 24.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

MUSPERF 318 Percussion Pedagogy and Techniques
2 cr. Undergraduate.
Instruments and methods for teaching various percussion instruments and methods including snare drum, timpani, keyboard percussion instruments, accessory percussion instruments, and hand drums.
Prerequisites: Music major; or cons instr.
Course Rules: Counts as repeat of MusPerf 51.
Current Offerings: http://uwm.edu/schedule

MUSPERF 319 Voice Technique for the Instrumentalist
1 cr. Undergraduate.
Small group instruction in fundamentals of voice for music educators, including vocal pedagogy and techniques.
Prerequisites: Music Performance major; audition principal instrument; or cons instr.
Course Rules: Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 321 Lessons in Flute:
2 cr. Undergraduate.
Private lessons in flute. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 322 Lessons in Oboe:
2 cr. Undergraduate.
Private lessons in oboe. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

MUSPERF 323 Lessons in Clarinet:
2 cr. Undergraduate.
Private lessons in clarinet. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
MUSPERF 324 Lessons in Saxophone:
2 cr. Undergraduate.
Private lessons in saxophone. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 325 Lessons in Bassoon:
2 cr. Undergraduate.
Private lessons in bassoon. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 328 Jazz Saxophone:
2 cr. Undergraduate.
Lessons in Jazz Saxophone. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 331 Lessons in French Horn:
2 cr. Undergraduate.
Private lessons in french horn. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 332 Lessons in Trumpet:
2 cr. Undergraduate.
Private lessons in trumpet. Course has eight progressive performance levels.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 333 Lessons in Trombone:
2 cr. Undergraduate.
Private lessons in trombone. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2017, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MUSPERF 334 Lessons in Euphonium:
2 cr. Undergraduate.
Private lessons in euphonium. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 335 Lessons in Tuba:
2 cr. Undergraduate.
Private lessons in tuba. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 336 Jazz Trumpet:
2 cr. Undergraduate.
Lessons in Jazz Trumpet. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MUSPERF 337 Jazz Trombone:
2 cr. Undergraduate.
Lessons in Jazz Trombone. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule
MUSPERF 341 Lessons in Violin:
2 cr. Undergraduate.
Private lessons in violin. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 342 Lessons in Viola:
2 cr. Undergraduate.
Private lessons in viola. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 343 Lessons in Cello:
2 cr. Undergraduate.
Private lessons in cello. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 344 Lessons in Double Bass:
2 cr. Undergraduate.
Private lessons in double bass. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 345 Lessons in Harp:
2 cr. Undergraduate.
Private lessons in harp. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2016, Fall 2015, Fall 2009, Spring 2009.
Current Offerings: http://uwm.edu/schedule

MUSPERF 346 Lessons in Guitar--Classical:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 347 Lessons in Guitar--Finger-Style:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 348 Lessons in Guitar--Jazz:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 349 Lessons in Guitar--Flamenco:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 351 Lessons in Percussion:
2 cr. Undergraduate.
Private lessons in percussion. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

http://uwm.edu/schedule
MUSPERF 352 Jazz Drum Set:
2 cr. Undergraduate.
Lessons in Jazz Drum Set. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 353 Jazz String Bass:
2 cr. Undergraduate.
Lessons in Jazz String Bass. Course has two progressive levels.
Prerequisites: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 361 Lessons in Composition:
1 cr. Undergraduate.
Private lessons in composition. Course has four progressive performance levels. Level I will be presented as a group lesson.
Prerequisites: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 401 Lessons in Piano:
2 cr. Undergraduate.
Private lessons in piano. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Fall 2012, Spring 2012.
Current Offerings: http://uwm.edu/schedule

MUSPERF 402 Lessons in Organ:
2 cr. Undergraduate.
Private lessons in organ. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 404 Lessons in Collaborative Piano-Vocal
2 cr. Undergraduate.
Private lessons in Collaborative Piano-Vocal. Course has four progressive performance levels.
Prerequisites: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2014, Spring 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

MUSPERF 406 Jazz Piano:
2 cr. Undergraduate.
Lessons in Jazz Piano. Two progressive levels.
Prerequisites: MusPerf 306(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 411 Lessons in Voice:
2 cr. Undergraduate.
Private lessons in voice. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 421 Lessons in Flute:
2 cr. Undergraduate.
Private lessons in flute. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 422 Lessons in Oboe:
2 cr. Undergraduate.
Private lessons in oboe. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule
MUSPERF 423 Lessons in Clarinet:
2 cr. Undergraduate.
Private lessons in clarinet. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 424 Lessons in Saxophone:
2 cr. Undergraduate.
Private lessons in saxophone. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 425 Lessons in Bassoon:
2 cr. Undergraduate.
Private lessons in bassoon. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 426 Jazz Saxophone:
2 cr. Undergraduate.
Lessons in Jazz Saxophone. Two progressive levels.
Prerequisites: MusicPerf 328(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 431 Lessons in French Horn:
2 cr. Undergraduate.
Private lessons in french horn. Course has four progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 432 Lessons in Trumpet:
2 cr. Undergraduate.
Private lessons in trumpet-cornet. Course has four progressive performance levels. May be retaken w/ chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Prerequisites:
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 433 Lessons in Trombone:
2 cr. Undergraduate.
Private lessons in trombone. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 434 Lessons in Euphonium:
2 cr. Undergraduate.
Private lessons in euphonium. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 435 Lessons in Tuba:
2 cr. Undergraduate.
Private lessons in tuba. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 436 Jazz Trumpet:
2 cr. Undergraduate.
Lessons in Jazz Trumpet. Two progressive levels.
Prerequisites: MusicPerf 336(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule
MUSPERF 437 Jazz Trombone:
2 cr. Undergraduate.
Lessons in Jazz Trombone. Two progressive levels.
Prerequisites: MusPerf 337(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

MUSPERF 441 Lessons in Violin:
2 cr. Undergraduate.
Private lessons in violin. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 442 Lessons in Viola:
2 cr. Undergraduate.
Private lessons in viola. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2015, Spring 2015, Spring 2013, Fall 2007.
Current Offerings: http://uwm.edu/schedule

MUSPERF 443 Lessons in Cello:
2 cr. Undergraduate.
Private lessons in cello. Course has four progressive performance levels.
Prerequisites: Jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 444 Lessons in Double Bass:
2 cr. Undergraduate.
Private lessons in double bass. Course has four progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 445 Lessons in Harp:
2 cr. Undergraduate.
Private lessons in harp. Course has four progressive performance levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 446 Lessons in Guitar--Classical:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 447 Lessons in Guitar--Finger-Style:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 448 Lessons in Guitar--Jazz:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 449 Lessons in Guitar--Flamenco:
2 cr. Undergraduate.
Private lessons in a principal guitar style. Course has four progressive performance levels.
Prerequisites: Jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule
MUSPERF 451 Lessons in Percussion:
2 cr. Undergraduate.
Private lessons in percussion. Course has four progressive performance levels.
Prerequisites: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 452 Jazz Drum Set:
2 cr. Undergraduate.
Lessons in Jazz Drum Set. Two progressive levels.
Prerequisites: MusPerf 352(P).
Course Rules: May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 453 Jazz String Bass:
2 cr. Undergraduate.
Lessons in Jazz String Bass. Two progressive levels.
Prerequisites: MusPerf 353(P).
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Fall 2017, Spring 2012, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

MUSPERF 461 Lessons in Composition:
2 cr. Undergraduate.
Private lesson in composition. Course has four progressive levels.
Prerequisites: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.
Course Rules: May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 501 Master Class in Keyboard Instruments, Piano
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated for a max of 8 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 502 Master Class in Keyboard Instruments, Organ
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Current Offerings: http://uwm.edu/schedule

MUSPERF 511 Master Class in Voice
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 521 Master Class in Woodwind Instruments, Flute
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 522 Master Class in Woodwind Instruments, Oboe
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 523 Master Class in Woodwind Instruments, Clarinet
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 524 Master Class in Woodwind Instruments, Saxophone
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 525 Master Class in Woodwind Instruments, Bassoon
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 531 Master Class in Brass Instruments, French Horn
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 532 Master Class in Brass Instruments, Trumpet
1 cr. Undergraduate/Graduate.
Prerequisites: Music major or minor, cons instr.
Course Rules: May be repeated to max of 8 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 533 Master Class in Brass Instruments, Trombone
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Current Offerings: http://uwm.edu/schedule

MUSPERF 534 Master Class in Brass Instruments, Euphonium
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
MUSPERF 535 Master Class in Brass Instruments, Tuba
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 541 Master Class in String Instruments, Violin
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 542 Master Class in String Instruments, Viola
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 543 Master Class in String Instruments, Violoncello
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 544 Master Class in String Instruments, Bass Viol
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 545 Master Class in String Instruments, Harp
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr. Not available for grad cr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 546 Master Class in Guitar
1 cr. Undergraduate/Graduate.
Master Class in Guitar supplements the student’s private lesson by providing an opportunity for students to perform and critique repertoire and discuss related topics.
Prerequisites: jr st, cons instr.
Course Rules: Counts as repeat of Music 280 with similar topic. May be retaken to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 551 Master Class in Percussion
1 cr. Undergraduate/Graduate.
Prerequisites: jr st & cons instr.
Course Rules: May be repeated to max of 8 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 701 Keyboard Instruments, Piano
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 702 Keyboard Instruments, Organ
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Current Offerings: http://uwm.edu/schedule

MUSPERF 703 Collaborative Piano - Vocal
2 cr. Graduate.
Study and performance of the art song repertoire; development of sight reading, transposition, and vocal coaching skills.
Prerequisites: grad st; cons instr; audition.
Course Rules: Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 704 Collaborative Piano - Instrumental
2 cr. Graduate.
Study and performance of the standard wind and string solo and ensemble repertoire (excluding string sonatas); piano reductions of orchestral accompaniments.
Prerequisites: grad st; cons instr; audition.
Course Rules: Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 705 Techniques of Opera Coaching and Accompanying
1 cr. Graduate.
Introduction to opera coaching and accompanying skills. Students will observe and accompany opera workshop rehearsals and public performances.
Prerequisites: grad st; cons instr; audition.
Course Rules: May be repeated to max of 4 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 706 Sonatas, Piano and String
1 cr. Graduate.
Study and performance of the standard piano and string sonata repertoire from all periods.
Prerequisites: grad st; cons instr; audition.
Course Rules: May be repeated to max of 4 cr. Open to Music majors only.
Current Offerings: http://uwm.edu/schedule
MUSPERF 711 Voice
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 721 Woodwind Instruments, Flute
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 722 Woodwind Instruments, Oboe
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2016, Fall 2015, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MUSPERF 723 Woodwind Instruments, Clarinet
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 724 Woodwind Instruments, Saxophone
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2016, Fall 2015, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MUSPERF 725 Woodwind Instruments, Bassoon
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 711 Voice
3 cr. Graduate.
Principal performance study for graduate students in Music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 731 Brass Instruments, French Horn
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 732 Brass Instruments Trumpet
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 733 Brass Instruments, Trombone
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 734 Brass Instruments, Euphonium
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 735 Brass Instruments, Tuba
3 cr. Graduate.
Principal performance study for graduate students in music in their major area.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 741 String Instruments, Violin
2-3 cr. Graduate.
Principal performance study for graduate students concentrating in violin performance (3 cr), or principal instrumental study for graduate students concentrating in string pedagogy (2 cr).
Prerequisites: grad st; cons instr.
Course Rules: May be repeated to max of 12 cr (performance students), or 8 cr (string pedagogy students). Open to Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
MUSPERF 742 String Instruments, Viola  
2-3 cr. Graduate.  
Principal performance study for graduate students concentrating in viola performance (3 cr), or principal instrumental study for graduate students concentrating in string pedagogy (2 cr).  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated to max of 12 cr (performance students), or 8 cr (string pedagogy students). Open to Music majors only.  
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 743 String Instruments, Violoncello  
2-3 cr. Graduate.  
Principal performance study for graduate students concentrating in violoncello performance (3 cr), or principal instrumental study for graduate students concentrating in string pedagogy (2 cr).  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated to max of 12 cr (performance students), or 8 cr (string pedagogy students). Open to Music majors only.  
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 744 String Instruments, Bass Viol  
3 cr. Graduate.  
Principal performance study for graduate students in music in their major area.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 745 String Instruments, Harp  
3 cr. Graduate.  
Principal performance study for graduate students in music in their major area.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.  
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 746 Guitar  
3 cr. Graduate.  
Principal performance study for graduate students concentrating in guitar performance.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated to 12 cr max. Open to Music majors only.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 751 Percussion  
3 cr. Graduate.  
Principal performance study for graduate students in music in their major area.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated to max of 12 cr. Open to Music majors only.  
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 761 Advanced Composition  
2 cr. Graduate.  
Advanced independent performance study in musical composition.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated to total of 8 cr.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 801 Keyboard Instruments, Piano  
2 cr. Graduate.  
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.  
Prerequisites: grad st; cons instr.  
Course Rules: Open to ICM students only.  
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 821 Woodwind Instruments, Flute  
2 cr. Graduate.  
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.  
Prerequisites: grad st; cons instr.  
Course Rules: Open to ICM students only.  
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 822 Woodwind Instruments, Oboe  
2 cr. Graduate.  
Principal performance study for solo and chamber works for institute of chamber music students on their major instrument. Public performance required.  
Prerequisites: grad st; cons instr.  
Course Rules: Open to ICM students only.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 823 Woodwind Instruments, Clarinet  
2 cr. Graduate.  
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.  
Prerequisites: grad st; cons instr.  
Course Rules: Open to ICM students only.  
Last Taught: Spring 2018, Fall 2017, Spring 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

MUSPERF 825 Woodwind Instruments, Bassoon  
2 cr. Graduate.  
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.  
Prerequisites: grad st; cons instr.  
Course Rules: Open to ICM students only.  
Current Offerings: http://uwm.edu/schedule
MUSPERF 841 String Instruments, Violin
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 842 String Instruments, Viola
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 843 String Instruments, Violoncello
2 cr. Graduate.
Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.
Prerequisites: grad st; cons instr.
Course Rules: Open to ICM students only.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 855 Instrumental Master Class
1 cr. Graduate.
Discussion of individual instrumental techniques in chamber music playing. Literature studied depending on group experience and interest.
Prerequisites: grad st; admis to ICM; writ cons director of ICM.
Course Rules: May be repeated to max of 4 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 901 Keyboard Instruments, Piano
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 601. May be repeated to max of 6 cr. Music majors only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MUSPERF 902 Keyboard Instruments, Organ
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 601. May be repeated to max of 6 cr. Music majors only.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 903 Keyboard Instruments, Harpsichord
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 603. May be repeated to max of 6 cr. Music majors only.
Last Taught: Spring 2007, Fall 2006.
Current Offerings: http://uwm.edu/schedule

MUSPERF 911 Voice
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 601. May be repeated to max of 6 cr. Music majors only.
Current Offerings: http://uwm.edu/schedule

MUSPERF 921 Woodwind Instruments, Flute
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 621. May be repeated to max of 6 cr. Music majors only.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MUSPERF 922 Woodwind Instruments, Oboe
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 621. May be repeated to max of 6 cr. Music majors only.
Current Offerings: http://uwm.edu/schedule

MUSPERF 923 Woodwind Instruments, Clarinet
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 623. May be repeated to max of 6 cr. Open to music majors only.
Last Taught: Spring 2013, Fall 2012, Spring 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

MUSPERF 924 Woodwind Instruments, Saxophone
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
Prerequisites: grad st; cons instr.
Course Rules: Counts as repeat of MusPerf 624. May be repeated to max of 6 cr. Open to music majors only.
Last Taught: Spring 2011, Fall 2010, Fall 2006, Fall 2005.
Current Offerings: http://uwm.edu/schedule
MUSPERF 925 Woodwind Instruments, Bassoon
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Counts as repeat of MusPerf 625. May be repeated to max of 6 cr. Open to music majors only.
**Last Taught:** Fall 2007, Fall 2006, Fall 2005, Spring 1997.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 931 Brass Instruments, French Horn
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Counts as repeat of MusPerf 631. May be repeated to max of 6 cr. Open to music majors only.
**Last Taught:** Spring 2015, Fall 2013, Spring 2013, Spring 2008.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 932 Brass Instruments, Trumpet
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
**Prerequisites:** grad st; cons instr.
**Course Rules:** May be repeated to max of 6 cr.
**Last Taught:** Fall 2016, Spring 2015, Fall 2014, Spring 2012.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 933 Brass Instruments, Trombone
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Counts as a repeat of MusPerf 633. May be repeated to max of 6 cr. Open to music majors only.
**Last Taught:** Fall 2008, Spring 2007, Fall 2006, Spring 2006.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 934 Brass Instruments, Euphonium
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major areas.
**Prerequisites:** grad st; cons instr.
**Course Rules:** May be repeated to max of 6 cr.
**Last Taught:** Fall 2007, Fall 2006, Spring 2005.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 935 Brass Instruments, Tuba
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Counts as repeat of MusPerf 635. May be repeated to max of 6 cr. Open to music majors only.
**Last Taught:** Spring 2018, Spring 2014, Spring 2010, Fall 2009.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 941 String Instruments, Violin
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Counts as repeat of MusPerf 641. May be repeated to max of 6 cr. Open to Music majors only.
**Last Taught:** Fall 2003, Fall 2002, Spring 2002, Fall 2001.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 942 String Instruments, Viola
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Counts as repeat of MusPerf 642. May be repeated to max of 6 cr. Open to Music majors only.
**Last Taught:** Fall 2017, Spring 2016, Fall 2010, Spring 2010.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 943 String Instruments, Violoncello
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Counts as repeat of MusPerf 643. May be repeated to max of 6 cr. Open to Music majors only.
**Last Taught:** Fall 2008, Fall 2004, Spring 1996, Fall 1995.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 944 String Instruments, Bass Viol
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Counts as repeat of MusPerf 644. May be repeated to max of 6 cr. Open to Music majors only.
**Last Taught:** Spring 2017, Fall 2016, Spring 1994.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 945 String Instruments, Harp
1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Counts as repeat of MusPerf 645. May be repeated to max of 6 cr. Open to Music majors only.
**Last Taught:** Spring 1998, Fall 1997, Spring 1997, Fall 1996.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

MUSPERF 946 Guitar
1 cr. Graduate.
Principal performance study for graduate students in music in their non-major area.
**Prerequisites:** grad st; cons instr.
**Course Rules:** May be repeated to a 6 cr max. Open to Music majors only.
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Spring 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
**MUSPERF 951 Percussion**

1 cr. Graduate.
Principal applied music study for graduate students in music in their non-major areas.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Counts as repeat of MusPerf 651. May be repeated to max of 6 cr. Open to Music majors only.

**Last Taught:** Fall 2015, Spring 2010, Fall 2009, Fall 2008.

**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**Faculty**

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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</thead>
<tbody>
<tr>
<td>Elena Abend</td>
<td>Senior Lecturer</td>
<td>MM</td>
<td>The Juilliard School</td>
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<tr>
<td>Beverly Belfer</td>
<td>Senior Lecturer</td>
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<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Barry Benjamin</td>
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<td>Efim Boico</td>
<td>Professor</td>
<td>Diploma</td>
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<tr>
<td>Jane Bowers</td>
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<tr>
<td>Mitchell Brauner</td>
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<tr>
<td>James Burmeister</td>
<td>Senior Lecturer, Interim</td>
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<td>University of Michigan</td>
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<tr>
<td>John Climer</td>
<td>Professor</td>
<td>DMA</td>
<td>University of Missouri - Kansas City</td>
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<tr>
<td>Jennifer Clippert</td>
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<td>Northwestern University</td>
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<tr>
<td>Wayne Cook</td>
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<tr>
<td>Scott Corely</td>
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<tr>
<td>Margery Deutsch</td>
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<tr>
<td>Zachary Durlam</td>
<td>Assistant Professor</td>
<td>DMA</td>
<td>Michigan State University</td>
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<tr>
<td>William H. Duvall Jr</td>
<td>Associate Professor</td>
<td>MMA</td>
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<tr>
<td>Thomas Dvorak</td>
<td>Professor</td>
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<tr>
<td>Scott Emmons</td>
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<tr>
<td>Valerie Errante</td>
<td>Associate Professor</td>
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<tr>
<td>Ralph Evans</td>
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<td>DMA</td>
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<tr>
<td>Sheila Feay-Shaw</td>
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<td>University of Washington</td>
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<tr>
<td>Gregory Flint</td>
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<tr>
<td>Robert Goodberg</td>
<td>Professor</td>
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<tr>
<td>Curt Hanrahan</td>
<td>Senior Lecturer</td>
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<td>University of Wisconsin - Madison</td>
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<tr>
<td>Gloria Hansen</td>
<td>Senior Lecturer</td>
<td>MM</td>
<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Sharon A. Hansen</td>
<td>Professor</td>
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<tr>
<td>Kevin Hartman</td>
<td>Professor</td>
<td>MM</td>
<td>Northwestern University</td>
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<tr>
<td>William Heinriches</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
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<tr>
<td>Jerry Horner</td>
<td>Professor</td>
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<tr>
<td>Rene Izquierdo</td>
<td>Professor</td>
<td>MM</td>
<td>Yale University</td>
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<tr>
<td>Judit Jaimes</td>
<td>Professor</td>
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<tr>
<td>Stefan Kartman</td>
<td>Professor</td>
<td>MM</td>
<td>Juilliard School of Music</td>
<td></td>
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<tr>
<td>Jun Kim</td>
<td>Associate Professor</td>
<td>DMA</td>
<td>University of Cincinnati</td>
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<tr>
<td>Tanya Kruse-Ruck</td>
<td>Associate Professor</td>
<td>MM</td>
<td>University of Cincinnati</td>
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<tr>
<td>Abram Loft</td>
<td>Distinguished Professor</td>
<td>PhD</td>
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<tr>
<td>Franklin S. Miller</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Daniel Nelson</td>
<td>Professor</td>
<td>MM</td>
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<tr>
<td>Stephen Nelson-Raney</td>
<td>Senior Lecturer</td>
<td>MMEd</td>
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<tr>
<td>Tim Noonan</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin - Madison</td>
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<tr>
<td>Mary Pautz</td>
<td>Associate Professor</td>
<td>PhD</td>
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</tbody>
</table>
Advanced Study in Chamber Music, Graduate Certificate

This certificate is designed for the instrumentalist who is admitted by audition to the Institute of Chamber Music at UW-Milwaukee. The major focus of the Institute of Chamber Music is to provide professional training experiences in the performance of chamber repertoire through well-matched chamber ensembles from duos through large chamber ensembles.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Eligibility and Admission
Students in the Institute of Chamber Music are admitted for a two-year program of study. Students are either part of an existing chamber group before entrance or, when admitted, assigned to a group. If the first-year group does not continue for a second year, the student must re-audition for membership in a new or reconstituted group that is acceptable to the faculty in order to continue for a second year of study.

At the end of the first year, each student's performance is judged by the Director of the Institute in consultation with the members of the ICM advisory committee. If a student does not meet the required performance level, the student is prevented from continuing in the Institute for a second year. The student may, if acceptable to the Department graduate faculty, choose to follow another graduate program in the Department.

Application

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

Credits and Courses

Minimum certificate requirement is 24 credits. Each student follows an integrated curriculum in which all subjects are related and no course is optional.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 806</td>
<td>Chamber Music Master Class (1 cr each for 4 semesters)</td>
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<tr>
<td>MUSIC 835</td>
<td>Chamber Music Coaching</td>
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<td>MUSPERF 855</td>
<td>Instrumental Master Class</td>
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<tr>
<td>MUSPERF 8XX</td>
<td>Performance (Instrument Lessons)</td>
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</table>

Total Credits 24

1 Met at end of program.

Thesis Recital
The recital should be given no sooner than the final semester of coursework. The student ensemble must present a program which has been approved by the Graduate Committee and by the Director of the Institute of Chamber Music.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the
degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
• Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

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

Music Education, BFA: EC-A General & Choral Music

The BFA in Music Education in General and Choral Music prepares students to teach music in elementary and secondary schools and culminates in certification by the State of Wisconsin Department of Public Instruction.

Requirements
The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

To obtain certification, a student must successfully audition and apply for admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the Music Education Area upon successful completion of MUS ED 350, which should be completed in the spring semester of his or her Sophomore year. Admission to the Music Education Program requires performance on a principal instrument/voice, piano, sight singing as well as requirements 1-4 below. A student seeking recommendation for teacher certification must successfully complete all of the following requirements:

1. Pass OWC-A (English), QL-A (Math) and Communications Course with a C or better to fulfill the Basic Skills requirement;
2. Fulfill all degree requirements, including passing all MUSED specific courses with a C or better;
3. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;
4. Achieve and maintain at least a 2.75 cumulative GPA;
5. Fulfill the Requirements for Human Relations and Act 31;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Meet Content Competency through a 3.0 GPA on specific courses or the Praxis II exam;
8. Complete student teaching successfully; and

Music Education BFA University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>General Education Requirements</td>
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<td>Competencies</td>
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<td>Oral and Written Communication</td>
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<td>Total Credits</td>
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1. See General Education Requirements (p. ) for more information.
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres. One elective must be three credits of MUSC 310.
4. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
5. Foreign Language Requirement. Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:
   • complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
   • complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
   • demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.

Music Education BFA Requirements

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<td>Piano Proficiency or MusPerf 1</td>
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<td>Music Theory</td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
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<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
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<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
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<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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MUSIC 226  Aural Theory III  1
MUSIC 230  Form Analysis  3
MUSIC 323  Instrumental and Choral Orchestration  3

**Music History**  15
MUSIC 102  American Popular Music  3
MUSIC 211  General History of Western Music I  3
MUSIC 212  General History of Western Music II  3
MUSIC 307  General History of Western Music III  3
MUSIC 310  Introduction to World Musics (OWC-B)  3

**Convocation**  7

**School of Education Requirements**  9
ED PSY 330  Introduction to Learning and Development  3
CURRINS 545  Reading in the Content Areas: Middle, Junior, and Senior High School  3

Choose one:
- EXCEDUC 300  The Exceptional Individual  3
- EXCEDUC 531  Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language  
- EXCEDUC 600  Survey of Exceptional Education  
- EXCEDUC 605  Child, Learner, Disabilities  

**School of Education Student Teaching**

- MUS ED 477  Student Teaching in Music - Elementary Level  5
- MUS ED 478  Student Teaching in Music - Secondary Level  4
- MUS ED 479  Seminar in Student Teaching  1

**Music Education BFA Core**

Choose one:
- COMMUN 101  Introduction to Interpersonal Communication (SS)  
- COMMUN 103  Public Speaking (HU)  
- MUS ED 350  Introduction to Teaching Music  2
- MUS ED 352  Technology in Music Education  2
- MUS ED 450  Field Experience in Music Education  2
- MUS ED 460  Teaching Elementary General Music  3
- MUS ED 461  Teaching Secondary General Music  2

**Requirements**

**Basic Skills Competency**  8
- ANTHRO 213 or AIS 203  American Indian Peoples of Wisconsin Western Great Lakes American Indian Community Life of the Past  
- AIS/HIST 263  North American Indian History Since 1887  

**Human Relations**  9

**Content Competency**  10

**Act 31**  11

**Elective**

**Additional Music Requirements**

**Performing Ensemble Requirements**

**Choral/Vocal Pedagogy and Techniques**  8

**Degree Requirements**

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music

---

6 0 credits; to be completed in the 7th semester of lessons.
7 0 credits; 6 semesters. MUSIC 106 & MUSIC 107.
8 Must be completed to apply for admission to MusEd.
9 Should be completed prior to Student Teaching.
10 Required to apply for Student Teaching.
requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

**Performance Ensemble Requirement**

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

**Performance Ensemble Requirement for Transfer Students**

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

**Recital Attendance and Music Convocation Requirements**

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

**Music Performance Course Enrollment Requirements**

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

**Music Theory and History Requirements**

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

**Laptop Requirement**

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop).

**Location:** Theatre 120
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.
Honors in the Peck School of the Arts

Dean's Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music Education, BFA: EC-A General Music

The BFA in Music Education in General Music prepares students to teach music in elementary and secondary schools and culminates in certification by the State of Wisconsin Department of Public Instruction.

Requirements

The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

To obtain certification, a student must successfully audition and apply for admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the Music Education Area upon successful completion of MUS ED 350, which should be completed in the spring semester of his or her Sophomore year. Admission to the Music Education Program requires performance on a principal instrument/voice, piano, sight singing as well as requirements 1-4 below. A student seeking recommendation for teacher certification must successfully complete all of the following requirements:

1. Pass OWC-A (English), QL-A (Math) and Communications Course with a C or better to fulfill the Basic Skills requirement;
2. Fulfill all degree requirements, including passing all MUSED specific courses with a C or better;
3. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;
4. Achieve and maintain at least a 2.75 cumulative GPA;
5. Fulfill the Requirements for Human Relations and Act 31;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Meet Content Competency through a 3.0 GPA on specific courses or the Praxis II exam;
8. Complete student teaching successfully; and

Music Education BFA University Core

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<th>Code</th>
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<td>General Education Requirements</td>
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<td>Competencies</td>
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<td>Oral and Written Communication – Part A and Part B</td>
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<td>Natural Sciences (Must include one lab)</td>
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1. See General Education Requirements (p. 36) for more information.
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres. One elective must be three credits of MUSIC 310.
4. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
5. Foreign Language Requirement. Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:
   • complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
   • complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
   • demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.

Music Education BFA Requirements

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<td>Music Theory</td>
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|
Music Education, BFA: EC-A General Music

### Music Education, BFA: EC-A General Music

#### Code

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<td>MUSIC 127</td>
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<td>MUSIC 230</td>
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<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
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</tr>
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<td>MUSIC 102</td>
<td>American Popular Music</td>
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</tr>
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<td>General History of Western Music I</td>
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<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 310</td>
<td>Introduction to World Musics (OWC-B)</td>
<td>3</td>
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#### Convocation

- **ED PSY 330**: Introduction to Learning and Development
- **CURRINS 545**: Reading in the Content Areas: Middle, Junior, and Senior High School

Choose one:

- **EXCEDUC 300**: The Exceptional Individual
- **EXCEDUC 531**: Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language
- **EXCEDUC 600**: Survey of Exceptional Education
- **EXCEDUC 605**: Child, Learner, Disabilities

#### School of Education Requirements

- **MUSIC 106 & MUSIC 107**: Must be completed to apply for admission to MusEd.
- **MUSIC 310**: Required to apply for Student Teaching.
- **MUS ED 477**: Required to apply for licensure. Also meets the following GER requirements: cultural diversity and social science. Learn more about General Education Requirements here (p. 33).

#### School of Education Student Teaching

- **MUS ED 477**: Student Teaching in Music - Elementary Level: 7 semesters of one of the following:
  - **MUSPERF 246**: Lessons in Guitar-Classical:
  - **MUSPERF 247**: Lessons in Guitar-Finger-Style:
  - **MUSPERF 248**: Lessons in Guitar-Jazz:

- **MUS ED 478**: Student Teaching in Music - Secondary Level

- **MUS ED 479**: Seminar in Student Teaching

#### Music Education BFA Core

Choose one:

- **COMMUN 101**: Introduction to Interpersonal Communication (SS)
- **COMMUN 103**: Public Speaking (HU)
- **MUS ED 350**: Introduction to Teaching Music
- **MUS ED 352**: Technology in Music Education
- **MUS ED 450**: Field Experience in Music Education
- **MUS ED 460**: Teaching Elementary General Music
- **MUS ED 461**: Teaching Secondary General Music

#### Requirements

#### Basic Skills Competency

#### Human Relations

#### Content Competency

#### Act 31

- **ANTHRO 213**: American Indian Peoples of Wisconsin
- **AIS 203**: Western Great Lakes American Indian Community Life of the Past
- **AIS/HIST 263**: North American Indian History Since 1887

#### edTPA

### EC-A General Music Requirements

Students may choose from a variety of instruments for this program. See your advisor if your principal instrument is not listed below.

#### Principal Instrument: Guitar

- 7 semesters of one of the following:
  - **MUSPERF 246**: Lessons in Guitar-Classical:
  - **MUSPERF 247**: Lessons in Guitar-Finger-Style:
  - **MUSPERF 248**: Lessons in Guitar-Jazz:

#### Secondary Music Requirements:

- **MUS ED 331**: Keyboard Skills for Music Educators I
- **MUSPERF 101**: Lessons in Piano: (3 semesters)

#### Principal Instrument: Piano

- 7 semesters of MusPerf 201

#### Secondary Music Requirements:

- **MUSPERF 111**: Lessons in Voice: (4 semesters)
- **MUSIC 150**: Beginning Guitar
- **MUSIC 151**: Intermediate Guitar I

#### Senior Half Recital

- **MUSIC 660**: Senior Recital: (complete after 7 semesters)

#### Performing Ensemble Requirements

Complete 7 semesters based on ensemble assignments, set at the beginning of each semester:

- **MUSIC 44**: Women’s Chorus
- **MUSIC 50**: University Men’s Choir
- **MUSIC 52**: University Advanced Women’s Choir
- **MUSIC 56**: Concert Chorale

#### Additional Music Requirements:

- **MUS ED 351**: Folk Instrument Techniques for the Music Classroom
- **MUS ED 458**: Musicals and Choirs for Young Voices
- **MUSIC 353**: Conducting
- **MUSIC 444**: Vocal Pedagogy I

#### Electives

- Students completing Principal Instrument: Guitar should enroll in and complete 4 credits
- Students completing Principal Instrument: Piano should enroll in and complete 5 credits
Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
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- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
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Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop).

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Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

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Honors in the Major

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.
Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music Education, BFA: EC-A Instrumental and General Music

The BFA in Music Education in Instrumental and General Music prepares students to teach music in elementary and secondary schools and culminates in certification by the State of Wisconsin Department of Public Instruction.

Requirements
The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

To obtain certification, a student must successfully audition and apply for admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the Music Education Area upon successful completion of MUS ED 350, which should be completed in the spring semester of his or her Sophomore year. Admission to the Music Education Program requires performance on a principal instrument/voice, piano, sight singing as well as requirements 1-4 below. A student seeking recommendation for teacher certification must successfully complete all of the following requirements:

1. Pass OWC-A (English), QL-A (Math) and Communications Course with a C or better to fulfill the Basic Skills requirement;
2. Fulfill all degree requirements, including passing all MUSED specific courses with a C or better;
3. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;
4. Achieve and maintain at least a 2.75 cumulative GPA;
5. Fulfill the Requirements for Human Relations and Act 31;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Meet Content Competency through a 3.0 GPA on specific courses or the Praxis II exam;
8. Complete student teaching successfully; and

Music Education BFA University Core

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<th>Code</th>
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<td>Competencies</td>
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<td>Oral and Written Communication – Part A and B 2,4</td>
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<td>Quantitative Literacy (QL) – Part A and Part B 2,4</td>
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<td></td>
<td>Electives Outside Peck School of the Arts</td>
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</tr>
<tr>
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<td>Electives in Peck School of the Arts 3</td>
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</tr>
<tr>
<td></td>
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<td>45</td>
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</tbody>
</table>

1. See General Education Requirements (p. 238) for more information.
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres. One elective must be three credits of MUSIC 310.
4. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
5. Foreign Language Requirement. Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:
   - complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
   - complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
   - demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.
### Music Education BFA Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Music Department Proficiencies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Theory Fundamentals</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piano Proficiency or MusPerf 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Music Theory</strong></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
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<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
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<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
</tr>
<tr>
<td><strong>Music History</strong></td>
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<tr>
<td>MUSIC 102</td>
<td>American Popular Music</td>
<td>3</td>
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<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
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<tr>
<td>MUSIC 310</td>
<td>Introduction to World Musics (OWC-B)</td>
<td>3</td>
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<tr>
<td><strong>Convocation</strong></td>
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<tr>
<td><strong>School of Education Requirements</strong></td>
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<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
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<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle,</td>
<td>3</td>
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<tr>
<td></td>
<td>Junior, and Senior High School</td>
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<tr>
<td>Choose one:</td>
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<td>3</td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities, the Arts, Foreign Language</td>
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</tr>
<tr>
<td>EXCEDUC 600</td>
<td>Survey of Exceptional Education</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
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<tr>
<td><strong>School of Education Student Teaching</strong></td>
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</tr>
<tr>
<td>MUS ED 477</td>
<td>Student Teaching in Music - Elementary</td>
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<td></td>
<td>Level</td>
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</tr>
<tr>
<td>MUS ED 478</td>
<td>Student Teaching in Music - Secondary</td>
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<td>Level</td>
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<tr>
<td>MUS ED 479</td>
<td>Seminar in Student Teaching</td>
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<td><strong>Music Education BFA Core</strong></td>
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<tr>
<td>Choose one:</td>
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<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal Communication (SS)</td>
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</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (HU)</td>
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<td>MUS ED 350</td>
<td>Introduction to Teaching Music</td>
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<td>MUS ED 352</td>
<td>Technology in Music Education</td>
<td>2</td>
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<td>MUS ED 450</td>
<td>Field Experience in Music Education</td>
<td>2</td>
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<tr>
<td>MUS ED 460</td>
<td>Teaching Elementary General Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 461</td>
<td>Teaching Secondary General Music</td>
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<tr>
<td><strong>Requirements</strong></td>
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<tr>
<td><strong>Basic Skills Competency</strong></td>
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<td>8</td>
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<tr>
<td><strong>Human Relations</strong></td>
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<td>9</td>
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<tr>
<td><strong>Content Competency</strong></td>
<td></td>
<td>10</td>
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<td>Act 31</td>
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### EC-A Instrumental and General Music Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 213 or AIS 203</td>
<td>American Indian Peoples of Wisconsin - Western Great Lakes American Indian Community Life of the Past</td>
<td></td>
</tr>
<tr>
<td>AIS/HIST 263</td>
<td>North American Indian History Since 1887</td>
<td></td>
</tr>
<tr>
<td>edTPA</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>6</td>
<td>0 credits; to be completed in the 7th semester of lessons.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>0 credits; 6 semesters. MUSIC 106 &amp; MUSIC 107.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Must be completed to apply for admission to MusEd.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Should be completed prior to Student Teaching.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Required to apply for Student Teaching.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Required to apply for licensure. Also meets the following GER requirements: cultural diversity and social science. Learn more about General Education Requirements here (p. 33).</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Takes place during student teaching; passing score required for licensure.</td>
<td></td>
</tr>
</tbody>
</table>

### Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.
Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements.

For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop).

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BA
A general Music degree designed for Music students interested in combining a Music major with a second major or minor in a non-music degree program. A curriculum in voice, keyboard, or another instrument that prepares the student for both professional performance and studio teaching. The BA in Music is a flexible program that allows students to take additional coursework outside of the Music Minor and/or complete a minor in a different area. Led by renowned performing artist faculty, students regularly perform professionally in the greater Milwaukee community while earning their degree.

Requirements

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Competencies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Distribution Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Additional Electives</td>
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</tr>
<tr>
<td></td>
<td>Credits in Peck School of the Arts</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>University Credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>45</td>
</tr>
</tbody>
</table>

1. Learn more about the General Education Requirements (p. ).
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

**Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Lessons in Principal Instrument</strong></td>
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</tr>
<tr>
<td></td>
<td>Select 6 semesters in a single Principal Instrument study at the 200 level</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 2 semesters of Piano at the 100 level</td>
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</tr>
<tr>
<td></td>
<td><strong>Performance Master Class</strong></td>
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<tr>
<td></td>
<td>Select the appropriate Performance Master Class when enrolled in Music Performance lessons at the 200 level (MUSPERF 5XX)</td>
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<tr>
<td></td>
<td><strong>Performance Ensemble</strong></td>
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<tr>
<td></td>
<td>Select 8 semesters</td>
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</tr>
<tr>
<td></td>
<td><strong>Music Theory</strong></td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
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</tr>
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<td>MUSIC 124</td>
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<td>Materials of Theory II</td>
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</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
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<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Music History</strong></td>
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</tr>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
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</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
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<td></td>
<td><strong>Music Convocation</strong></td>
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<tr>
<td>MUSIC 106</td>
<td>Foundations of Music (one semester taken during freshman year)</td>
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<td>MUSIC 107</td>
<td>Music Convocation (five semesters)</td>
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<td><strong>Required Elective</strong></td>
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<td>Select one Music Theory or Music History Elective (see lists below)</td>
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<tr>
<td></td>
<td><strong>General Electives</strong></td>
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<tr>
<td></td>
<td>Select 27 credits</td>
<td>27</td>
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</table>

1. Additional semesters of Principal Instrument study may be taken as Music electives.
2. Can be completed concurrently with 200 level lessons. Based on audition results, students enroll in MUSPERF 1 (Levels I & II) for up to two semesters to attain piano proficiency and/or MUSPERF 101 up to two semesters if you elect to take piano. MUSPERF 1 will not be counted toward degree requirement.
3. MUSIC 106 and MUSIC 107 credit does not count toward overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 credits. See Recital and Music Convocation Requirements.

**Music Theory Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 220</td>
<td>Introduction to Computers and Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 321</td>
<td>Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
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</table>
Recommended course order.

Music History Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 317</td>
<td>Introduction to American Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 409</td>
<td>Folk Music in Contemporary Culture</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 410</td>
<td>Topics in World Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 449</td>
<td>Women in Music:</td>
<td>3</td>
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<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
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</tr>
<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
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<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music:</td>
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</table>

Bachelor of Arts in Music Curriculum

Recommended course order.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<td>Year 1</td>
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<tr>
<td>Fall</td>
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<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano: (or)</td>
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</tr>
<tr>
<td>MUSPERF 101</td>
<td>Lessons in Piano: (or)</td>
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<tr>
<td>Select one of the following in music performance:</td>
<td>1</td>
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<tr>
<td>MUSPERF 2XX</td>
<td>Principal Instrument (or)</td>
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</tr>
<tr>
<td>MUSPERF 5XX 2</td>
<td>Performance Master Class</td>
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<td>MUSIC XXX</td>
<td>Performance Ensemble</td>
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</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
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<tr>
<td>Electives or Core Curriculum</td>
<td></td>
<td>9</td>
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<tr>
<td>Credits</td>
<td></td>
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<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano: (or)</td>
<td>1</td>
</tr>
<tr>
<td>MUSPERF 101</td>
<td>Lessons in Piano: (or)</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following in music performance:</td>
<td>1</td>
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</tr>
<tr>
<td>MUSPERF 2XX</td>
<td>Principal Instrument (or)</td>
<td>1</td>
</tr>
<tr>
<td>MUSPERF 5XX 2</td>
<td>Performance Master Class</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Performance Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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<tr>
<td>Fall</td>
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<tr>
<td>Select one of the following in music performance:</td>
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<tr>
<td>MUSPERF 101</td>
<td>Lessons in Piano:</td>
<td>1</td>
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<tr>
<td>MUSPERF 2XX</td>
<td>Principal Instrument</td>
<td>1</td>
</tr>
<tr>
<td>MUSPERF 5XX 2</td>
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<td>Credits</td>
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<tr>
<td>MUSPERF 5XX 2</td>
<td>Performance Master Class</td>
<td>1</td>
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<tr>
<td>MUSIC XXX</td>
<td>Performance Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>Select one Music History or Music Theory elective in either Junior or Senior year (see list below)</td>
<td>3</td>
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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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<td>Credits</td>
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<tr>
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<tr>
<td>MUSPERF 5XX 2</td>
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<td>1</td>
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<td>MUSIC XXX</td>
<td>Performance Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 126</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Introduction to World Musics</td>
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</tr>
<tr>
<td>Electives or Core Curriculum</td>
<td></td>
<td>9-12</td>
</tr>
<tr>
<td>Credits</td>
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<td>14-17</td>
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<td>Year 4</td>
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<tr>
<td>Fall</td>
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<tr>
<td>MUSPERF 5XX 2</td>
<td>Performance Master Class</td>
<td>1</td>
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<tr>
<td>MUSIC XXX</td>
<td>Performance Ensemble</td>
<td>1</td>
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<tr>
<td>MUSIC 310</td>
<td>Materials of Contemporary Music</td>
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<tr>
<td>Electives or Core Curriculum</td>
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<td>15</td>
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<tr>
<td>Total Credits</td>
<td></td>
<td>136-145</td>
</tr>
</tbody>
</table>

1 Music Performance Courses. 8 cr Can be satisfied by six semesters in a single Principal Instrument study at the 200 level and two semesters of Piano at the 100 level. However, additional semesters of Principal Instrument study may be taken as Music electives.

2 Performance Master Class. 6-8 cr Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as Music electives.
organizations may be granted as follows:

Students Performance Ensemble Requirement for Transfer below for specific requirements in each area.)

Approval in certain degree programs; see individual degree programs University Community Orchestra. (Other performance ensembles may Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and Chorale, Women's Chorus, University Men's Chorus, University Band, performing Ensembles: University Advanced Women's Choir, Concert the Department of Music recognizes the following approved major ensemble credit per semester can apply toward degree requirements.

Assignments at the beginning of each semester. Only one approved concurrent with each semester of private study. The director of bands, the during the course of their study. All Performance and Music Education All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on
the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/(http://uwm.edu/arts/apply/laptop).

**Location:** Theatre 120  
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BFA: Collaborative Piano and Vocal

The BFA in Music: Collaborative Piano and Vocal curriculum is one of few such undergraduate programs offered nationwide. It offers training for pianists anticipating careers in vocal accompanying, as well as coaching art song, opera, and musical theatre. Students receive weekly lessons in collaborative piano, as well as solo piano, and piano technique, and participate in rehearsals and performances for the UWM Opera Theatre, Milwaukee Opera Theatre, and UWM choirs.

**Requirements**

<table>
<thead>
<tr>
<th>University Core</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Code</strong></td>
</tr>
<tr>
<td>General Education Requirements</td>
</tr>
<tr>
<td>Competencies</td>
</tr>
<tr>
<td>Oral and Written Communication – Part A and Part B</td>
</tr>
<tr>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
</tr>
<tr>
<td>Foreign Language</td>
</tr>
<tr>
<td>Distribution Requirements</td>
</tr>
<tr>
<td>Humanities</td>
</tr>
<tr>
<td>Natural Sciences (Must include one lab)</td>
</tr>
<tr>
<td>Social Sciences</td>
</tr>
<tr>
<td>Cultural Diversity</td>
</tr>
<tr>
<td>Electives</td>
</tr>
<tr>
<td>Electives Outside Peck School of the Arts</td>
</tr>
<tr>
<td>Electives in Peck School of the Arts</td>
</tr>
<tr>
<td>Electives Outside Discipline</td>
</tr>
<tr>
<td>Total Credits</td>
</tr>
</tbody>
</table>

1. See General Education Requirements (p. 33) for more information.
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
4. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
5. **Foreign Language Requirement.** Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:
   - complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
   - complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
   - demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.
# Music BFA Requirements

**Music Department Competencies**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
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<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
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**Music Theory**

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<tr>
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<tbody>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
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<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<td>MUSIC 226</td>
<td>Aural Theory III</td>
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<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
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**Music History**

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<tbody>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
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<td>MUSIC 307</td>
<td>General History of Western Music III</td>
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**Convocation**

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<td>MUSIC 106</td>
<td>Foundations of Music</td>
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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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**Cooperative Piano and Vocal Requirements**

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<tr>
<td>MUSPERF 304</td>
<td>Lessons in Collaborative Piano-Vocal: (complete 4 semesters)</td>
<td>2</td>
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<tr>
<td>MUSPERF 404</td>
<td>Lessons in Collaborative Piano-Vocal: (complete 4 semesters)</td>
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<tr>
<td>MUSPERF 511</td>
<td>Master Class in Voice (complete 8 semesters)</td>
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**Lessons in Piano & Rehearsal Accompanist**

<table>
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<th>Credits</th>
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<tbody>
<tr>
<td>MUSPERF 101</td>
<td>Lessons in Piano:</td>
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<tr>
<td>MUSIC 457</td>
<td>Opera Theatre</td>
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**Lessons in Voice**

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<tbody>
<tr>
<td>MUSPERF 111</td>
<td>Lessons in Voice: (complete 2 semesters)</td>
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**Performing Organizations**

Four semesters of one:

<table>
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<tbody>
<tr>
<td>MUSIC 44</td>
<td>Women’s Chorus</td>
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<tr>
<td>or MUSIC 50</td>
<td>University Men’s Choir</td>
<td></td>
</tr>
<tr>
<td>or MUSIC 52</td>
<td>University Advanced Women’s Choir</td>
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</tr>
<tr>
<td>or MUSIC 56</td>
<td>Concert Chorale</td>
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**Music Theory Electives**

Choose 3 credits of the following:

<table>
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<th>Code</th>
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<tbody>
<tr>
<td>MUSIC 220</td>
<td>Introduction to Computers and Music</td>
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<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
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<tr>
<td>MUSIC 326</td>
<td>Advanced Aural Theory</td>
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</tr>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
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<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
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**Music History Electives**

Choose 3 credits of the following:

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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
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</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
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<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
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</tr>
<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
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**Conducting**

<table>
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<tbody>
<tr>
<td>MUSIC 353</td>
<td>Conducting</td>
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**Related Music Requirements**

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MUSIC 321</td>
<td>Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 245</td>
<td>Basic and Italian Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 246</td>
<td>German and French Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 377</td>
<td>Song Literature I: Italy, Germany, France, Great Britain</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 378</td>
<td>Song Literature II: United States and Select European Countries</td>
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**Recital**

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<td>MUSIC 659</td>
<td>Junior Recital</td>
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<tr>
<td>MUSIC 660</td>
<td>Senior Recital:</td>
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**General Electives**

May be taken from any area of the University (including Music) to fulfill requirements

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<tr>
<td>Fall</td>
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</tr>
<tr>
<td>Choose one:</td>
<td></td>
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</tr>
<tr>
<td>MUSIC 44</td>
<td>Women’s Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 50</td>
<td>University Men’s Choir</td>
<td></td>
</tr>
<tr>
<td>MUSIC 52</td>
<td>University Advanced Women’s Choir</td>
<td></td>
</tr>
<tr>
<td>MUSIC 56</td>
<td>Concert Chorale</td>
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</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
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</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSPERF 101</td>
<td>Lessons in Piano:</td>
<td>1</td>
</tr>
<tr>
<td>MUSPERF 301</td>
<td>Lessons in Piano:</td>
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<td>MUSPERF 511</td>
<td>Master Class in Voice</td>
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**Spring**

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<tr>
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<tr>
<td>MUSIC 44</td>
<td>Women’s Chorus</td>
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<tr>
<td>MUSIC 50</td>
<td>University Men’s Choir</td>
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<tr>
<td>MUSIC 52</td>
<td>University Advanced Women’s Choir</td>
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<tr>
<td>MUSIC 56</td>
<td>Concert Chorale</td>
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<td>MUSIC 107</td>
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<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
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<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
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<tr>
<td>MUSPERF 101</td>
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<tr>
<td>MUSPERF 304</td>
<td>Lessons in Collaborative Piano-Vocal:</td>
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<td>MUSPERF 511</td>
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Choose one:

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<tr>
<td>MUSIC 50</td>
<td>University Men’s Choir</td>
</tr>
<tr>
<td>MUSIC 52</td>
<td>University Advanced Women’s Choir</td>
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<td>Concert Chorale</td>
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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
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<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<td>MUSIC 226</td>
<td>Aural Theory III</td>
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<td>MUSIC 245</td>
<td>Basic and Italian Lyric Diction</td>
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<tr>
<td>MUSPERF 101</td>
<td>Lessons in Piano:</td>
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<tr>
<td>MUSPERF 304</td>
<td>Lessons in Collaborative Piano-Vocal:</td>
</tr>
<tr>
<td>MUSPERF 511</td>
<td>Master Class in Voice</td>
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Electives or Core Curriculum | 4 |

Credits | 17 |

Spring

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>GERMAN 101</td>
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Choose one:

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<tr>
<td>MUSIC 44</td>
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<td>MUSIC 50</td>
</tr>
<tr>
<td>MUSIC 52</td>
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<tr>
<td>MUSIC 56</td>
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<td>MUSIC 107</td>
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<td>MUSIC 212</td>
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</tr>
<tr>
<td>MUSIC 246</td>
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<tr>
<td>MUSPERF 101</td>
</tr>
<tr>
<td>MUSPERF 304</td>
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<td>MUSPERF 511</td>
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Year 3

Fall

<table>
<thead>
<tr>
<th>Year 4</th>
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<tbody>
<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
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Choose one Music Theory Elective:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MUSIC 220</td>
</tr>
<tr>
<td>MUSIC 233</td>
</tr>
<tr>
<td>MUSIC 327</td>
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<tr>
<td>MUSIC 328</td>
</tr>
<tr>
<td>MUSIC 341</td>
</tr>
<tr>
<td>MUSIC 421</td>
</tr>
</tbody>
</table>

Total Credits | 131 |

Undergraduate Admission and Audition Procedures

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

Theory & Piano Placement Exams

All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/yc9m99f5) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.
Transfer Students

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application

To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent

Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition

All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).
Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major
Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BFA: Guitar
Offering the only Bachelor-level degrees in finger-style guitar in the world, as well as classical and jazz degrees, our students are able to customize a unique, comprehensive experience while studying in the cultural capital of Wisconsin. Degree programs in guitar performance offer a multi-style approach, in which students choose a primary style among classical, jazz, and finger-style guitar. Classes in composition, technology, world music, pedagogy, and repertoire are designed to prepare students for a versatile career in music, one that may include performing, teaching, recording, and music publishing. Since 2005, UWM’s classical guitar student organization has worked to expose students to leading performers. Each year the group invites some of the world’s best touring performers to UWM. After each performance, the visiting performer gives a master class. The student organization also annually applies for a grant with the UWM Student Association to send four students to a guitar festival, such as the Indiana Guitar Festival.

Requirements
University Core

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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General Education Requirements

Competencies

- Oral and Written Communication – Part A and Part B 2,4
- Quantitative Literacy (QL) – Part A and Part B 2,4
- Foreign Language 2,5
### Distribution Requirements

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<td>Humanities</td>
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<tr>
<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td>Social Sciences</td>
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<td>Cultural Diversity</td>
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#### Electives

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<td>Electives Outside Peck School of the Arts</td>
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<tr>
<td>Electives Outside Discipline</td>
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</tbody>
</table>

**Total Credits**: 45

1. See General Education Requirements (p. 33) for more information.
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
4. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
5. **Foreign Language Requirement.** Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:
   - complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
   - complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
   - demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.
   Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.

### Music BFA Requirements

#### Music Department Competencies

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<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
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<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
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#### Music Theory

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<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
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<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
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<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<td>Aural Theory III</td>
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<td>MUSIC 230</td>
<td>Form Analysis</td>
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#### Music History

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<td>MUSIC 211</td>
<td>General History of Western Music I</td>
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<td>MUSIC 212</td>
<td>General History of Western Music II</td>
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<td>MUSIC 307</td>
<td>General History of Western Music III</td>
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**Convocation**

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<td>MUSIC 106</td>
<td>Foundations of Music</td>
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<td>MUSIC 107</td>
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**Total Credits**: 45

### Guitar Requirements

#### Piano Proficiency

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#### Principal Instrument

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<td>MUSPERF 346</td>
<td>Lessons in Guitar—Classical:</td>
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<td>or MUSPERF 347</td>
<td>Lessons in Guitar—Finger-Style:</td>
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<tr>
<td>or MUSPERF 348</td>
<td>Lessons in Guitar—Jazz:</td>
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#### Performance Ensembles

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<tbody>
<tr>
<td>MUSIC 220</td>
<td>Introduction to Computers and Music</td>
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<tr>
<td>MUSIC 321</td>
<td>Counterpoint</td>
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<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
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</tr>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
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<tr>
<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
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<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music</td>
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#### Music History Electives

**Choose one of the following:**

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<th>Course Title</th>
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<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
<td>2-3</td>
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<tr>
<td>MUSIC 309</td>
<td>American Folk and Popular Music</td>
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</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
<td></td>
</tr>
<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
<td></td>
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<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
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### Required Guitar Classes

**Choose one of the following:**

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<tr>
<td>MUSIC 353</td>
<td>Conducting</td>
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<tr>
<td>MUSIC 478</td>
<td>Finger-Style Guitar: History and Performance</td>
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<tr>
<td>MUSIC 489</td>
<td>Workshop: (Guitar Technique)</td>
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**Music Electives**

**Choose one of the following:**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
<td>2-3</td>
</tr>
<tr>
<td>MUSIC 309</td>
<td>American Folk and Popular Music</td>
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<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td></td>
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<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td></td>
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<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
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<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
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<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
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**Music Electives**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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<tr>
<td>MUSIC 309</td>
<td>American Folk and Popular Music</td>
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</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
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</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
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</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
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<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
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</tr>
<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
<td></td>
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</tbody>
</table>

**May be taken from any area of the University (including Music) to fulfill requirements**
Performance Master Class is required with lessons each semester.

A minimum of two semesters in a Choral Ensemble: MUSIC 44, MUSIC 50, MUSIC 52, or MUSIC 56. Required 6 semesters in MUSIC 274 for Classical and Finger-Style Guitar majors.

A minimum of two semesters in a Choral Ensemble: MUSIC 44, MUSIC 50, MUSIC 52, or MUSIC 56. Required 6 semesters in MUSIC 402.

Students may enroll in a maximum of two semesters (2 credits).

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
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<tr>
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<tr>
<td>MUSIC 44</td>
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<td>University Men’s Choir</td>
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</tr>
<tr>
<td>MUSIC 52</td>
<td>University Advanced Women’s Choir</td>
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</tr>
<tr>
<td>MUSIC 56</td>
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<td>MUSPERF 1</td>
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<td>Lessons in Guitar–Classical:</td>
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<td>MUSPERF 347</td>
<td>Lessons in Guitar–Finger-Style:</td>
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<td>MUSPERF 348</td>
<td>Lessons in Guitar–Jazz:</td>
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<td>MUSPERF 546</td>
<td>Master Class in Guitar</td>
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<td>Electives or Core Curriculum</td>
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<td>Credits</td>
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<tr>
<td>MUSIC 50</td>
<td>University Men’s Choir</td>
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<td>MUSIC 52</td>
<td>University Advanced Women’s Choir</td>
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<td>MUSIC 56</td>
<td>Concert Chorale</td>
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<td>MUSIC 424</td>
<td>Fretboard Essentials</td>
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<td>1</td>
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<tr>
<td>Choose one:</td>
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<tr>
<td>MUSPERF 346</td>
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<td>Lessons in Guitar–Finger-Style:</td>
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</tr>
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<td>MUSPERF 348</td>
<td>Lessons in Guitar–Jazz:</td>
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</tr>
<tr>
<td>MUSPERF 546</td>
<td>Master Class in Guitar</td>
<td>1</td>
</tr>
<tr>
<td>Electives or Core Curriculum</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Credits</td>
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</table>

| Year 2       |                                             |         |
| Fall         |                                             |         |
| MUSIC 107    | Music Convocation                          | 0       |
| MUSIC 211    | General History of Western Music I         | 3       |
| MUSIC 274    | Guitar Repertoire and Ensemble              | 1       |
| or MUSIC 402 | or Jazz Combo                              |         |
| MUSIC 225    | Materials of Theory III                     | 3       |
| MUSIC 226    | Aural Theory III                           | 1       |
| MUSIC 348    | Sight-Reading for Guitar II                | 1       |
| Choose one:  |                                             |         |
| MUSPERF 346  | Lessons in Guitar–Classical:               | 2       |
| MUSPERF 347  | Lessons in Guitar–Finger-Style:            |         |
| MUSPERF 348  | Lessons in Guitar–Jazz:                    |         |
| Electives or Core Curriculum |                         |         |
| Credits      |                                            | 18      |
All new freshmen are required to take Theory and Piano Placement Exams in the subsequent Music Theory and Piano courses. A final grade of B or higher is required to enroll. Keyboard skills must successfully complete a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor and Piano Area majors must audition for the certification program. Provisional students must take all required first-semester Music courses during the provisional semester.

Transfer Students

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application

To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent

Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition

All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal
area. The Music Education major must re-audition in their principal area
and re-interview with the Music Education faculty.

**Degree Requirements**

All Music curricula for the BFA require 125-130 credits, distributed as
follows: music courses as specified in each curriculum: 75-80 credits;
core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music
requires 120 credits, distributed as follows: music courses, 48 credits;
core curriculum, 45 credits; general electives, 27 credits.

**Performance Ensemble Requirement**

All Music majors are required to participate in performing organizations
during the course of their study. All Performance and Music Education
majors must be registered in an approved major performing organization
concurrent with each semester of private study. The director of bands, the
director of choral activities, and the director of orchestras make ensemble
assignments at the beginning of each semester. Only one approved
ensemble credit per semester can apply toward degree requirements.
For the purpose of fulfilling the Performance Ensemble requirement,
the Department of Music recognizes the following approved major
performing Ensembles: University Advanced Women’s Choir, Concert
Chorale, Women’s Chorus, University Men’s Chorus, University Band,
Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and
University Community Orchestra. (Other performance ensembles may
be approved in certain degree programs; see individual degree programs
below for specific requirements in each area.)

**Performance Ensemble Requirement for Transfer Students**

Credits from an accredited college/university for performing
organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at
  least two semesters of an approved major performing organization.
The performing organization must conform to the individual degree
requirements: instrumentalists take band or orchestra, vocalists take
choral ensembles;
- Entering sophomores with 30 or more earned credits may only
  transfer up to two completed semesters of an approved performing
  organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up
to four completed semesters of an approved performing organization
from another university.

**Recital Attendance and Music Convocation Requirements**

All Music majors must attend weekly Music Convocation meetings for
a minimum of five semesters. All students entering the Music Department
as freshmen are required to take one semester of MUSIC 106 during their
freshman year.

All Music majors, excluding transfer students and second degree
candidates, must earn 80 recital attendance credits for graduation. This
requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per
  semester), and
- Off-campus recitals (one attendance credit per recital to a maximum
  of three per semester).

Transfer students and second degree candidates must earn 10 recital
credits (including weekly Music Convocation) for each semester on the
UWM campus, to a total of 80, or until the completion of the degree.

**Music Performance Course Enrollment Requirements**

The study of music performance in private lessons, master classes, and
seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second
  week of each semester;
- Eligibility for undergraduate Music major private lessons requires
  a minimum of 4 credits in Music Department courses. Only one
  ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble
  concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level
  or above must enroll in the appropriate Performance Master Class.
  Music Education Majors are not required to take Performance
  Master Class, but may enroll in Performance Master Class as music
  electives.

**Music Theory and History Requirements**

The Music Theory core comprises a three-semester sequence of
Materials of Theory concurrently with three semesters of Aural Theory.
This is followed by a semester of Form Analysis. The Music History core
comprises a three-semester sequence of the General History of Western
Music. Additional Music Theory and Music History courses are required
in all Music degree programs. See individual programs for details.

**Laptop Requirement**

Music students in all areas will be encouraged to have a laptop computer
during their course of study in the department. Students in the BFA Music
Composition and Technology program will be required to have a laptop
computer once they are admitted. Please see requirements posted on
the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/
(http://uwm.edu/arts/apply/laptop).

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays
(closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic
success. At the Peck School of the Arts, we offer professional academic
advising in the following undergraduate disciplines: art, dance, film,
music, and theatre.

Advisors provide students with individualized advising to assist them
in areas such as: degree requirements, major options, course selection,
campus resources, college success strategies, graduation assessment,
academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit
http://uwm.edu/arts/advising/.

**Honors in the Major**

Honors and High Honors in the Major are granted to students who
have earned a cumulative GPA of 3.500 or greater and the academic
department's recommendation.
Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Music, BFA: Music Composition and Technology**

The Music, BFA: Music Composition and Technology program fosters development in instrumental, vocal, and electroacoustic composition, with an emphasis on contemporary and experimental techniques.

**Requirements University Core**

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<tr>
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<th>Credits</th>
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<tbody>
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<td>14</td>
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<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
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<td>MUSIC 128</td>
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<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
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<td>MUSIC 230</td>
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<td>MUSIC 211</td>
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</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
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</tr>
<tr>
<td>MUSIC 107</td>
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**Electives Outside Discipline**

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<tr>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

1 See General Education Requirements (p. 33) for more information.
2 Credits may be utilized in required curriculum areas.
3 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
4 OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
5 Foreign Language Requirement. Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:
   - complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
   - complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
   - demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.

**Music BFA Requirements**

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<td>MUSIC 123</td>
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<td>General History of Western Music II</td>
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<td>MUSIC 106</td>
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</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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</table>

0 credits; 6 semesters

**Music Composition and Technology Requirements**

**Required Composition and Theory Background**

All potential Composition majors must show evidence of compositional ability before acceptance to the program. Each applicant must submit a Composition Portfolio of previous compositional work to the Composition faculty. The portfolio acts as the equivalent of an audition. Prospective students seeking to enter this program must also be able to begin by enrolling in the MUSIC 123 and MUSIC 127 series, as determined by the
Theory Placement Exam. Those students who do not meet this criterion may be advised to enter the program on a Provisional basis, but must take MUSIC 1, receive a final grade of "B" or better, and resubmit their Composition Portfolio before a final admission and placement decision is determined by the Music Composition Area.

**Composition Portfolio**
The Composition Portfolio should contain the applicant's best three to five representative works. At least one copy of a written score is required. The score may be of any ensemble configuration, from large ensemble to piano solo. Computer-generated scores, or digital software compositions are accepted but not required. Evidence of audio recordings in an appropriate digital audio format, fixed media, web-based, or comparable format is expected. The compositions on the recordings may or may not be the same compositional scores submitted with your portfolio. Other possible formats for compositions are Standard MIDI File, an image file or movie of a composition’s performance, or sound track to a video work. This latter may be a collaborative work with video artist(s). Group compositions are not acceptable. There is no particular style requirement for applicants, nor is there a duration requirement for his/her representative works. However, they must be complete works.

**Required Piano Proficiency**
Depending upon audition results, students may be required to enroll in MUSPERF 1 for up to two semesters or until they can pass a satisfactory piano audition through the Piano faculty. Those who place at the 100 level must take a minimum of 4 semesters of piano. All students entering at the 200 level must take 2 semesters of piano. Piano proficiency at 200 level is satisfied by demonstrated ability to play works of moderate difficulty, such as Bach’s Two-part Inventions, Bartok’s Mikrokosmos Book IV, Schumann’s “Kinderszenen”, or Easy to Intermediate Classics. Deficiencies are made up without credit.

A student who is deficient in any of the above may be admitted provisionally, but only after evaluation and approval by the Composition Area. Contact the Composition Area for further information.

**Graduation Requirements**
Completion of the BFA in Music Composition and Technology will require each student to compose a minimum of five compositions over the lifetime of their program. While a minimum of three works must be written for solo or small ensemble, and one work for solo electronic or combined electronic and acoustic instrument(s), one work may be for large ensemble (orchestra, chamber, wind symphony, or choir). Of the five works required, three works must be presented publicly, each a minimum of nine minutes in duration.

<table>
<thead>
<tr>
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<td>MUSPERF 1</td>
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<td>Performance Ensemble</td>
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<td>MUSPERF 3</td>
<td>Piano Proficiency</td>
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<td>Minimum of two credits in:</td>
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<tr>
<td>MUSPERF 361</td>
<td>Lessons in Composition: (enroll in 1 credit for 4 semesters)</td>
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<tr>
<td>MUSPERF 461</td>
<td>Lessons in Composition: (enroll in 1 credit for 8 semesters)</td>
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**Additional Music Theory and History Requirements**
- **MUSIC 314**: Music since 1900: 3 credits
- **MUSIC 321**: Counterpoint: 3 credits
- **MUSIC 323**: Instrumental and Choral Orchestration: 3 credits
- **MUSIC 421**: Materials of Contemporary Music: 3 credits

**Senior Recital or Thesis**
- **MUSIC 660**: Senior Recital: 2 credits

1. Performance Master Class. 0-2 credits (depending on piano placement)
2. Students must complete a minimum of 7 credits of approved music ensemble. Other approved music ensembles are: University Band, Symphony Band, University Orchestra and Wind Ensemble. Additional credits may be taken and/or serve as electives in Aleatoric Improvisation Ensemble, Jazz Ensemble, Percussion Ensemble, Collegium Musicum or Guitar Ensemble.
3. Piano proficiency and subsequent MusPerf series is based on a student’s Piano Proficiency placement. See above for additional details.
4. In the semester the student intends to graduate, they must either register for Senior Recital or Senior Thesis. Registering for Senior Recital stipulates a public recital of the student’s compositions lasting a minimum of one hour in duration. Registering for Senior Thesis requires the student to submit the following to the Composition Faculty: a final composition portfolio, which consists of the five required compositions, along with recordings (as available). Additionally, printed programs representing the public presentation of these works are required.

**Undergraduate Admission and Audition Procedures**
Throughout the year, the Music Department schedules new student audition days (http://uw.edu/arts/apply). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.
Theory & Piano Placement Exams
All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/yc9m9rf5) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

Transfer Students
All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application
To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent
Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition
All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional
Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation
A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted
Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition
Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

Degree Requirements
All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement
All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students
Credits from an accredited college/university for performing organizations may be granted as follows:

• All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
• Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
• Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements
All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:
• Campus recitals (one attendance credit per recital),
• Weekly departmental Music Convocation (five attendance credits per semester), and
• Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

**Music Performance Course Enrollment Requirements**

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

• Performance courses (lessons) cannot be dropped after the second week of each semester;
• Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
• All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
• Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

**Music Theory and History Requirements**

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

**Laptop Requirement**

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

**Honors in the Major**

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Music, BFA: Music History and Literature**

The BFA in Music: Music History and Literature program focuses on the historical and critical study of music, and prepares the student for further study in musicology, ethnomusicology, music librarianship, or music criticism. Our students enjoy access to an extensive music library, including printed & digital scores, CDs, LPs, books about music, and streaming audio. In addition we help train new music librarians through our work with the Coordinated Program in Music Librarianship – a joint degree between the School of Information Studies and the Peck School of the Arts Department of Music.

**Requirements**

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
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<td>General Education Requirements</td>
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<tr>
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<td>Competencies</td>
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<td></td>
<td>Oral and Written Communication – Part A and Part B</td>
<td>2,4</td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
<td>2,4</td>
</tr>
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</table>
Foreign Language

Distribution Requirements

- Humanities: 6 credits
- Natural Sciences (Must include one lab): 6 credits
- Social Sciences: 6 credits
- Cultural Diversity: 2 credits

Electives

- Electives Outside Peck School of the Arts: 12 credits
- Electives in Peck School of the Arts: 3 credits
- Electives Outside Discipline: 3 credits

Total Credits: 45

1. See General Education Requirements (p. 33) for more information.
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
4. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
5. Foreign Language Requirement. Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:
   - Complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
   - Complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
   - Demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

Music BFA Requirements

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<thead>
<tr>
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<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<tr>
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<tr>
<td>MUSIC 127</td>
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<td>MUSIC 128</td>
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<tr>
<td>MUSIC 225</td>
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<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
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MUSPERF 1 or MUSPERF 101

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<td>MusPerf 2XX</td>
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<tr>
<td>HIST 102</td>
<td>Western Civilization: 1500 to the Present</td>
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<td>Electives or Core Curriculum</td>
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| Credits | 13 |

**Spring**

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<td>MUSIC 107</td>
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<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
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</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
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<tr>
<td>MusPerf XXX</td>
<td></td>
<td>1</td>
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<tr>
<td>MusPerf 2XX</td>
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| Credits | 15 |

**Year 3**

**Fall**

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<td>General History of Western Music III</td>
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<td>MUSIC 310</td>
<td>Introduction to World Musics</td>
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<td>MUSIC 321</td>
<td>Counterpoint</td>
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<td>MUSIC 452</td>
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<td>MusPerf 2XX</td>
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| Credits | 17-18 |

**Spring**

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<td>Music Convocation</td>
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<tr>
<td>MUSIC 450</td>
<td>Introduction to Musicology</td>
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<td>MUSIC 452</td>
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| Credits | 17-18 |

Choose one Music History elective:

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<th>Course Title</th>
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<tbody>
<tr>
<td>MUSIC 102</td>
<td>American Popular Music</td>
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<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature</td>
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<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
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<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
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<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
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<tr>
<td>MUSIC 317</td>
<td>Introduction to American Music</td>
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<tr>
<td>MUSIC 409</td>
<td>Folk Music in Contemporary Culture</td>
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<tr>
<td>MUSIC 410</td>
<td>Topics in World Music</td>
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<td>MUSIC 449</td>
<td>Women in Music</td>
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<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
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<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
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| Credits | 17|

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<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music:</td>
<td></td>
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</tbody>
</table>

| Credits | 17|

**Total Credits**

| Credits | 125-128 |

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All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

**Performance Ensemble Requirement**
All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

**Performance Ensemble Requirement for Transfer Students**
Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

**Recital Attendance and Music Convocation Requirements**
All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department
as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

Music Performance Course Enrollment Requirements
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop).

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advise/.

Honors in the Major
Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BFA: Piano
Our competitive performance programs are led by renowned performing artist faculty. Located within the cultural capital of Wisconsin, students regularly receive invitations to perform both as soloists and chamber musicians in the greater Milwaukee community while earning their degree.

Requirements
University Core

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td></td>
<td>Competencies</td>
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<td></td>
<td>Oral and Written Communication – Part A and Part B</td>
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<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
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Foreign Language  

**Distribution Requirements**

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<td>Humanities</td>
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<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td>Social Sciences</td>
<td>6</td>
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<td>Cultural Diversity</td>
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**Electives**

<table>
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<th>Elective</th>
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<td>Electives Outside Peck School of the Arts</td>
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<tr>
<td>Electives in Peck School of the Arts</td>
<td></td>
</tr>
<tr>
<td>Electives Outside Discipline</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 45

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1. See General Education Requirements (p. 33) for more information.
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
4. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
5. **Foreign Language Requirement.** Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:
   - complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
   - complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
   - demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.

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**Music BFA Requirements**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
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<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
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</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<td>MUSIC 226</td>
<td>Aural Theory III</td>
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<td>MUSIC 230</td>
<td>Form Analysis</td>
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<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
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<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 307</td>
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<tr>
<td>Convocation</td>
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<tbody>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
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<td>Music Convocation</td>
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**Piano Requirements**

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<th>Code</th>
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<tbody>
<tr>
<td>MUSPERF 501</td>
<td>Master Class in Keyboard Instruments, Piano (enroll in this course every semester for 1 credit)</td>
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**Performing Organizations**

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<tbody>
<tr>
<td>MUSIC 220</td>
<td>Introduction to Computers and Music</td>
<td>3</td>
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<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
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<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music:</td>
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**Music Electives**

**Music History Electives**

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<tr>
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<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 659</td>
<td>Junior Recital</td>
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</tr>
<tr>
<td>MUSIC 660</td>
<td>Senior Recital:</td>
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**Recital**

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<tr>
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**General Electives**

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<tr>
<td>MUSIC 75</td>
<td>Music of the Renaissance</td>
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<tr>
<td>MUSIC 76</td>
<td>Music of the Modern Era</td>
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</tbody>
</table>

May be taken from any area of the University (including Music) to fulfill requirements

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7. Music Performance Class is required with lessons each semester. MusPerf 3XX Principal Instrument (4 semesters minimum; 2 credits each semester) and MusPerf 4XX Principal Instrument (4 semesters minimum; 2 credits each semester).
8. Music XXX Choral Ensemble (2 semesters) and Music XXX (any ensemble with Piano faculty consent; complete 4 credits at 1 credit per semester)
9. Enroll in 2 credits of MUSIC 259 for 2 semesters
10. Complete two credits of each: MUSIC 275 and MUSIC 276
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td><strong>Year 1</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MusPerf 3XX</td>
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<td></td>
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<tr>
<td>Performance Ensemble</td>
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<td>Electives or Core Curriculum</td>
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<td><strong>Credits</strong></td>
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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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<tr>
<td>MUSIC 124</td>
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<td>MUSIC 128</td>
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<td>MUSIC 107</td>
<td>Music Convocation</td>
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<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
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<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<tr>
<td>Performance Ensemble</td>
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<tr>
<td>Electives and Core Curriculum</td>
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<tr>
<td><strong>Credits</strong></td>
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<tr>
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<td>MUSIC 107</td>
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<td>MUSIC 212</td>
<td>General History of Western Music II</td>
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<td>MUSIC 230</td>
<td>Form Analysis</td>
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<td>2</td>
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<td>Performance Ensemble</td>
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<td>Electives or Core Curriculum</td>
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<td><strong>Credits</strong></td>
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<td>17</td>
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<tr>
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<td><strong>Fall</strong></td>
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<td>MUSIC 107</td>
<td>Music Convocation</td>
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<tr>
<td>MUSIC 259</td>
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<td>MUSIC 275</td>
<td>Keyboard Performance Repertoire</td>
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<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
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<td>MUSIC 353</td>
<td>Conducting</td>
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<tr>
<td>MusPerf 4XX</td>
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<td>Music Convocation</td>
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<tr>
<td>MUSIC 276</td>
<td>Keyboard Performance Repertoire</td>
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<td>MUSIC 310</td>
<td>Introduction to World Musics</td>
<td>3</td>
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<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
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<td>Junior Recital</td>
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<td>Performance Ensemble</td>
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<td>MusPerf 4XX</td>
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**Choose one:**

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<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
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</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
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<td>MUSIC 312</td>
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<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>124-126</td>
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</table>

**Performance Ensemble**: Piano majors are required to enroll in a minimum of 6 semesters of ensemble with a minimum of 2 semesters in a choral ensemble and 4 semesters in any ensemble with iani or oragn instructor consent.

**Performance Master Class**: 8 semesters at 1 credit is required as part of your individual lesson obligation.

**Undergraduate Admission and Audition Procedures**

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

**Theory & Piano Placement Exams**

All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/yc9m9rf5) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

**Transfer Students**

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take place-
exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application
To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent
Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition
All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional
Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation
A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted
Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition
Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

Degree Requirements
All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; credit for an approved music performance ensemble must be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement
All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

Performance Ensemble Requirement for Transfer Students
Credits from an accredited college/university for performing organizations may be granted as follows:
• All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
• Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
• Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

Recital Attendance and Music Convocation Requirements
All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:
• Campus recitals (one attendance credit per recital),
• Weekly departmental Music Convocation (five attendance credits per semester), and
• Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.
Music Performance Course Enrollment Requirements
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

Music Theory and History Requirements
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

Laptop Requirement
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop).

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major
Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Music, BFA: Strings
Our competitive performance programs are led by renowned performing artist faculty. Located within the cultural capital of Wisconsin, students regularly perform as soloists, chamber musicians, and with professional Milwaukee-area ensembles while earning their degree. Students are prepared for modern, multifaceted professional careers as performers and/or teachers of chamber ensemble, orchestral, and solo repertory. The program offers a thorough grounding in instrumental technique and repertory, and broad and continuous experience in performance.

Requirements
University Core

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
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<tr>
<td></td>
<td>Competencies</td>
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</tr>
<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B</td>
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<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
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<td>Foreign Language</td>
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<td>Distribution Requirements</td>
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<tr>
<td></td>
<td>Humanities</td>
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<td></td>
<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td></td>
<td>Social Sciences</td>
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<td>Cultural Diversity</td>
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<tr>
<td></td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives Outside Peck School of the Arts</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Electives in Peck School of the Arts</td>
<td>12</td>
</tr>
</tbody>
</table>
**Electives Outside Discipline** 3

**Total Credits** 45

1. See General Education Requirements (p. 33) for more information.
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
4. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
5. **Foreign Language Requirement.** Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:
   - complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or
   - complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or
   - demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.

### Music BFA Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td></td>
<td><strong>Music Department Competencies</strong></td>
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<tr>
<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Music Theory</strong></td>
<td></td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Music History</strong></td>
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</tr>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
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</tr>
<tr>
<td></td>
<td><strong>Convocation</strong></td>
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</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
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6. 0 credits; 6 semesters

### Strings Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 353</td>
<td>Conducting</td>
<td>2</td>
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<tr>
<td>MUSIC 447</td>
<td>String Pedagogy in the Studio</td>
<td>2</td>
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<tr>
<td></td>
<td><strong>Principal Instrument</strong></td>
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<td><strong>Performance Master Class</strong></td>
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### Performing Ensemble

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
<td>8</td>
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### Chamber Music

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 361</td>
<td>Ensemble - Piano</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 365</td>
<td>Ensemble - Woodwind</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 367</td>
<td>Ensemble - Brass</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 369</td>
<td>Ensemble - Strings</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 370</td>
<td>Chamber Ensemble - Mixed</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 561</td>
<td>Advanced Chamber Music</td>
<td>1-3</td>
</tr>
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</table>

### Music Theory Electives

**Complete one of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 220</td>
<td>Introduction to Computers and Music</td>
<td></td>
</tr>
<tr>
<td>MUSIC 321</td>
<td>Counterpoint</td>
<td></td>
</tr>
<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td></td>
</tr>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
<td></td>
</tr>
<tr>
<td>MUSIC 420</td>
<td>Advanced Computing and Music</td>
<td></td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
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</tr>
<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music</td>
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</table>

### Music History Electives

**Complete one of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature:</td>
<td></td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
<td></td>
</tr>
<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
<td></td>
</tr>
<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
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</tr>
</tbody>
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### Recital

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUSIC 659</td>
<td>Junior Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 660</td>
<td>Senior Recital</td>
<td>2</td>
</tr>
</tbody>
</table>

### Music Electives

**7**

### General Electives

**5**

May be taken from any area of the University (including Music) to fulfill requirements

**Total Credits** 56-63

7. Music Performance Class is required with lessons each semester. MusPerf 3XX Principal Instrument (4 semesters minimum; 2 credits each semester) and MusPerf 4XX Principal Instrument (4 semesters minimum; 2 credits each semester).

8. 8 semesters of Orchestra required while concurrently taking studio lessons.

9. Complete 1-4 credits in MUSIC 361, MUSIC 365, MUSIC 367, MUSIC 369, and/or MUSIC 370; complete 1-4 credits in MUSIC 561.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
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<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td><strong>Choose one:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 361</td>
<td>Ensemble - Piano</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 365</td>
<td>Ensemble - Woodwind</td>
<td></td>
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<tr>
<td>MUSIC 367</td>
<td>Ensemble - Brass</td>
<td></td>
</tr>
<tr>
<td>MUSIC 369</td>
<td>Ensemble - Strings</td>
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</tr>
<tr>
<td>MUSIC 370</td>
<td>Chamber Ensemble - Mixed</td>
<td></td>
</tr>
<tr>
<td>MUSIC 561</td>
<td>Advanced Chamber Music</td>
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<tr>
<td>Electives or Core Curriculum</td>
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### Year 2

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<tr>
<td><strong>Spring:</strong></td>
<td><strong>Fall:</strong></td>
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<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
<td>1</td>
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<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
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<tr>
<td><strong>Choose one:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 361</td>
<td>Ensemble - Piano</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 365</td>
<td>Ensemble - Woodwind</td>
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</tr>
<tr>
<td>MUSIC 367</td>
<td>Ensemble - Brass</td>
<td></td>
</tr>
<tr>
<td>MUSIC 369</td>
<td>Ensemble - Strings</td>
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<tr>
<td>MUSIC 370</td>
<td>Chamber Ensemble - Mixed</td>
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</tr>
<tr>
<td>MUSIC 561</td>
<td>Advanced Chamber Music</td>
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<td>Electives or Core Curriculum</td>
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<tbody>
<tr>
<td><strong>Fall:</strong></td>
<td><strong>Spring:</strong></td>
<td></td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 369</td>
<td>Ensemble - Strings</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 370</td>
<td>Chamber Ensemble - Mixed</td>
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<tbody>
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<td><strong>Spring:</strong></td>
<td></td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 369</td>
<td>Ensemble - Strings</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 370</td>
<td>Chamber Ensemble - Mixed</td>
<td>3</td>
</tr>
<tr>
<td>Electives or Core Curriculum</td>
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<td><strong>Fall:</strong></td>
<td></td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
<td>1</td>
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<tr>
<td><strong>Choose one:</strong></td>
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<td></td>
</tr>
<tr>
<td>MUSIC 361</td>
<td>Ensemble - Piano</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 365</td>
<td>Ensemble - Woodwind</td>
<td></td>
</tr>
<tr>
<td>MUSIC 367</td>
<td>Ensemble - Brass</td>
<td></td>
</tr>
<tr>
<td>MUSIC 369</td>
<td>Ensemble - Strings</td>
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<tr>
<td>MUSIC 370</td>
<td>Chamber Ensemble - Mixed</td>
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<td>Electives or Core Curriculum</td>
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<td><strong>Credits</strong></td>
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</table>
Undergraduate Admission and Audition Procedures

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

Theory & Piano Placement Exams

All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/yc9m9rf5) on the day of their audition. Those with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

Transfer Students

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

Music Admission Application

To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

Statement of Intent

Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

Audition

All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band,
Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

**Performance Ensemble Requirement for Transfer Students**

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

**Recital Attendance and Music Convocation Requirements**

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

**Music Performance Course Enrollment Requirements**

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

**Music Theory and History Requirements**

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

**Laptop Requirement**

Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop).

**Honors in the Major**

Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

 Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500
GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Music, BFA: Voice**

The charge of the Voice Area is to teach skills for future success in music, to offer solid vocal technique and knowledge of vocal health. This training is built upon a foundation of history, theory, and a varied repertoire of vocal music. A spirit of genuine collaboration both within and outside of the voice area offers experiences in many musical styles, fostering future performers, pedagogues and leaders in the arts.

**Requirements**

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td></td>
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<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B</td>
<td>2,4</td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
<td>2,4</td>
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<td></td>
<td>Foreign Language</td>
<td>2,5</td>
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<td>Distribution Requirements</td>
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<td>Humanities</td>
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<td></td>
<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td></td>
<td>Social Sciences</td>
<td>6</td>
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<tr>
<td></td>
<td>Cultural Diversity</td>
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<td></td>
<td>Electives Outside Peck School of the Arts</td>
<td>12</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Electives Outside Discipline</td>
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</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>45</td>
</tr>
</tbody>
</table>

1. See General Education Requirements (p. 33) for more information.
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
4. OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

**Music BFA Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC</td>
<td>Theory Fundamentals</td>
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<tr>
<td>MUSPERF</td>
<td>Fundamentals of Piano:</td>
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<tr>
<td>MUSIC</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC</td>
<td>General History of Western Music III</td>
<td>3</td>
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<tr>
<td>MUSIC</td>
<td>Foundations of Music</td>
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</tr>
<tr>
<td>MUSIC</td>
<td>Music Convocation</td>
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</table>

6. 0 credits; 6 semesters

**Voice Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MUSIC</td>
<td>Basic and Italian Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC</td>
<td>German and French Lyric Diction</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Song Literature I: Italy, Germany, France, Great Britain</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Song Literature II: United States and Select European Countries</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Vocal Pedagogy I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Vocal Pedagogy II</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC</td>
<td>Opera Theatre</td>
<td>3</td>
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<tr>
<td>MUSPERF</td>
<td>Lessons in Voice:</td>
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<tr>
<td>MUSPERF</td>
<td>Master Class in Voice</td>
<td>1</td>
</tr>
</tbody>
</table>

**Foreign Language Requirement**

Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:

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

Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.
### Foreign Language Requirement

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tr>
<td>Total Credits</td>
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</table>

### Lessons in Piano

<table>
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<tr>
<th>Requirement</th>
<th>Credits</th>
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<tr>
<td>Lessons in Piano:</td>
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<tr>
<td>MUSPERF 101</td>
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</tbody>
</table>

### Performing Ensemble

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Women’s Chorus</td>
<td>1</td>
</tr>
<tr>
<td>University Men’s Choir</td>
<td>1</td>
</tr>
<tr>
<td>University Advanced Women’s Choir</td>
<td>1</td>
</tr>
<tr>
<td>Concert Chorale</td>
<td>1</td>
</tr>
</tbody>
</table>

### Music Electives

#### Choose one of the following:

- **Music History Electives**
  - MUSIC 220: Introduction to Computers and Music
  - MUSIC 321: Counterpoint
  - MUSIC 322: Instrumental and Choral Orchestration
  - MUSIC 327: Analog and Digital Synthesis I
  - MUSIC 328: Digital Synthesis and Systems II
  - MUSIC 420: Advanced Computing and Music
  - MUSIC 421: Materials of Contemporary Music
  - MUSIC 680: Special Studies in Music

#### Choose one of the following:

- **Music Theory Electives**
  - MUSIC 50: Performing Ensemble
  - MUSIC 52: Performing Ensemble
  - MUSIC 56: Performing Ensemble
  - MUSIC 54: Performing Ensemble
  - MUSIC 56: Performing Ensemble
  - MUSIC 58: Performing Ensemble
  - MUSIC 60: Performing Ensemble
  - MUSIC 62: Performing Ensemble

### Recital

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Junior Recital</td>
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</tr>
<tr>
<td>Senior Recital</td>
<td>2</td>
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</table>

### Music Electives

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
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### General Electives

May be taken from any area of the University (including Music) to fulfill requirements.

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Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

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**Location:** Theatre 120  
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

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**Final Honors**

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**Music, BFA: Winds, Brass, and Percussion**

The BFA in Music Performance is designed to prepare students for professional performing careers and studio teaching. The goal of the program is to graduate students who are expert performers and knowledgeable music scholars.

There are more than 20 student performing groups at UWM, including the Brass Choir, Collegium Musicum, Jazz Ensemble, Music From Almost Yesterday, Contemporary Music Ensemble, Percussion Ensemble, Symphony Band, Symphony Orchestra, University Band, University Choir, Wind Ensemble, and numerous chamber groups.

**Requirements**

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements ¹</td>
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</tr>
<tr>
<td></td>
<td>Competencies</td>
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<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B ²,4</td>
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<tr>
<td></td>
<td>Foreign Language ²,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Distribution Requirements ¹</td>
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<tr>
<td></td>
<td>Humanities</td>
<td>6</td>
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<tr>
<td></td>
<td>Natural Sciences (Must include one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td>²</td>
</tr>
<tr>
<td></td>
<td>Electives Outside Peck School of the Arts</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Electives in Peck School of the Arts ³</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Electives Outside Discipline</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>45</td>
</tr>
</tbody>
</table>

¹ See General Education Requirements (p. 33) for more information.  
² Credits may be utilized in required curriculum areas.  
³ 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.  
⁴ OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.  
⁵ Foreign Language Requirement. Completion of the UWM foreign language requirement can be demonstrated by satisfying one of the following options:  
• complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language, or  
• complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language, or  
• demonstrate foreign language ability equivalent to two semesters of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.  
Foreign language requirements in Music vary based on degree program. Consult individual degree programs for requirements.
### Music BFA Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 1</td>
<td>Theory Fundamentals</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
<td></td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 212</td>
<td>General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 307</td>
<td>General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 107</td>
<td>Music Convocation</td>
<td>0</td>
</tr>
</tbody>
</table>

6 0 credits; 6 semesters

### Winds, Brass, and Percussion Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 361</td>
<td>Ensemble - Piano</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 365</td>
<td>Ensemble - Woodwind</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 367</td>
<td>Ensemble - Brass</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 369</td>
<td>Ensemble - Strings</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 370</td>
<td>Chamber Ensemble - Mixed</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 561</td>
<td>Advanced Chamber Music</td>
<td>1-3</td>
</tr>
<tr>
<td>MUSIC 353</td>
<td>Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 354</td>
<td>Instrumental Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

### Music Theory Electives

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 323</td>
<td>Instrumental and Choral Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
<td>3</td>
</tr>
</tbody>
</table>

### Music History Electives

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 308</td>
<td>Selected Topics in Music History and Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 314</td>
<td>Music since 1900</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 611</td>
<td>Music of the Medieval Era</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 612</td>
<td>Music of the Renaissance and Early Modern Era</td>
<td>3</td>
</tr>
</tbody>
</table>

### Recital

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 659</td>
<td>Junior Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUSIC 660</td>
<td>Senior Recital:</td>
<td>2</td>
</tr>
</tbody>
</table>

### General Electives

May be taken from any area of the University (including Music) to fulfill requirements

7 Includes four semesters of Music Performance at 300 level (2 credits per semester for a total of 8 credits) and four semesters at 400 level (2 cr credits per semester for a total of 8 credits.)

8 Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>MusPerf 3XX</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MusPerf 5XX</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUSPERF 1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Performance Ensemble Requirement:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUSIC 30</td>
<td>University Community Band</td>
</tr>
<tr>
<td></td>
<td>MUSIC 40</td>
<td>Symphony Band</td>
</tr>
<tr>
<td></td>
<td>MUSIC 42</td>
<td>Wind Ensemble</td>
</tr>
<tr>
<td></td>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
</tr>
<tr>
<td></td>
<td>MUSIC 106</td>
<td>Foundations of Music</td>
</tr>
<tr>
<td></td>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
</tr>
<tr>
<td></td>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
</tr>
<tr>
<td></td>
<td>Electives or Core Curriculum</td>
<td>8</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>MusPerf 3XX</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MusPerf 5XX</td>
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<td>MUSPERF 1</td>
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</tr>
<tr>
<td></td>
<td>Performance Ensemble Requirement:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUSIC 30</td>
<td>University Community Band</td>
</tr>
<tr>
<td></td>
<td>MUSIC 40</td>
<td>Symphony Band</td>
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<tr>
<td></td>
<td>MUSIC 42</td>
<td>Wind Ensemble</td>
</tr>
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<td></td>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
</tr>
<tr>
<td></td>
<td>MUSIC 107</td>
<td>Music Convocation</td>
</tr>
<tr>
<td></td>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
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<td>MUSIC 128</td>
<td>Materials of Theory II</td>
</tr>
<tr>
<td></td>
<td>Electives or Core Curriculum</td>
<td>8</td>
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</table>

### Year 2

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MusPerf 3XX</td>
<td>2</td>
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<tr>
<td></td>
<td>MusPerf 5XX</td>
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</tr>
<tr>
<td></td>
<td>Performance Ensemble Requirement:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUSIC 30</td>
<td>University Community Band</td>
</tr>
<tr>
<td></td>
<td>MUSIC 40</td>
<td>Symphony Band</td>
</tr>
<tr>
<td></td>
<td>MUSIC 42</td>
<td>Wind Ensemble</td>
</tr>
<tr>
<td></td>
<td>MUSIC 182</td>
<td>Symphony Orchestra</td>
</tr>
<tr>
<td></td>
<td>MUSIC 107</td>
<td>Music Convocation</td>
</tr>
<tr>
<td></td>
<td>MUSIC 211</td>
<td>General History of Western Music I</td>
</tr>
<tr>
<td></td>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
</tr>
<tr>
<td></td>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
</tr>
<tr>
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<td>Electives or Core Curriculum</td>
<td>5</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>MusPerf 3XX</td>
<td>2</td>
</tr>
</tbody>
</table>
Undergraduate Admission and Audition Procedures

Throughout the year, the Music Department schedules new student audition days (http://uwm.edu/arts/apply). In addition to meeting the general University admission requirements, a prospective Music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a music theory and piano placement exam. Composition majors must submit original works as a Composition Portfolio to the Composition faculty for consideration. In certain degree programs, students must successfully pass an audition on a secondary instrument as required. The Music Minor Audition process for lessons: a student can audition either a scheduled audition day, at ensemble auditions, or with area heads and be admitted to lessons at the discretion of the instructor and area head.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

Theory & Piano Placement Exams

All new freshmen are required to take Theory and Piano Placement exams (https://tinyurl.com/yc9m9rf5) on the day of their audition. Those
with prior piano experience must perform a short composition that best demonstrates their keyboard skills.

**Transfer Students**

All transfer students must audition on their principal instrument, be accepted by the faculty in their course of study, and take placement exams in Music Theory and Piano. Transfer students must enroll in the level of Music Theory recommended by the Theory Area. Undergraduate transfer students who have completed two years at another university, college, or junior college may not be able to graduate with only two years of study at UWM. Students transferring from another Music Education program should contact the Chair of the Music Education area prior to audition.

**Music Admission Application**

To be eligible for acceptance into any Music program, students must first complete a successful audition. Please submit all application materials at least 2 weeks prior to audition date. To schedule an audition or request more information, please email music-admission@uwm.edu. Students interested in department level scholarships must audition by March 1 for priority consideration.

**Statement of Intent**

Upload a 100-word statement describing your desired musical career and how studying at UWM will help prepare you.

**Audition**

All BA and BFA degree programs require an audition on principal instrument or voice. See Undergraduate Audition Requirements (http://uwm.edu/arts/wp-content/uploads/sites/71/2017/01/Music-Undergraduate-Audition-Requirements.pdf) for more information. Auditioning students will attend an orientation, a Department of Music student convocation, and take music theory and piano placement exams. The typical audition day starts at 8:30AM and ends around 2PM. Parents are encouraged to attend. Presentations from Financial Aid, Norris Health Service, and University Housing will be offered.

**Provisional**

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

**Probation**

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

**Not Accepted**

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

**Re-Audition**

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

**Degree Requirements**

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

**Performance Ensemble Requirement**

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

**Performance Ensemble Requirement for Transfer Students**

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

**Recital Attendance and Music Convocation Requirements**

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).
Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

**Music Performance Course Enrollment Requirements**
The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class.

Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

**Music Theory and History Requirements**
The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

**Laptop Requirement**
Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: uwm.edu/arts/apply/laptop/ (http://uwm.edu/arts/apply/laptop/).

**Location:** Theatre 120  
**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays  
(closed on university holidays)  
**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Honors in the Major**
Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

**Honors in the Peck School of the Arts**

**Dean’s Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Music, Minor**
The Minor in Music is designed to provide students with basic knowledge and broad choices in coursework. In addition to enrolling in the required music theory and history core, students will choose from a wide assortment of electives in order to create programs that are uniquely matched to their interests. Please note that the Minor in Music does not meet the Wisconsin Department of Instruction requirements for Music Education licensure. The Music Minor is a flexible and condensed program that allows students to take additional coursework outside of the Music major and or complete a minor in a different area. Led by renowned performing artist faculty, students regularly perform professionally in the greater Milwaukee community while earning their degree.

**Requirements**
Students must complete at least 22 credits to receive the Minor in Music. Students must complete a minimum of 12 credits at UWM:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 1 &amp; 123 &amp; 127</td>
<td>Theory Fundamentals and Aural Theory I and Materials of Theory I</td>
<td>5</td>
</tr>
</tbody>
</table>
consult the Department of Music for specific information regarding these concentrations.

**MM/MLIS Coordinated Degree Program**

In cooperation with the School of Information Studies, the Department of Music offers a MM/MLIS coordinated degree program to prepare students for positions as music librarians. Students in the program will concurrently pursue a Master of Music degree program (with a concentration in Music History and Literature) and a Master of Library and Information Science degree program. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. For more detailed information on this program see Concentration in Music History and Literature later in this section and the Library and Information Science section of the Bulletin.

**Master of Music (MM) in Performance**

Our degree programs permit concentration in chamber music performance, collaborative piano (vocal or instrumental), conducting, music education, music history and literature, performance (voice or instrument), string pedagogy, and theory and composition. Students should consult the Department of Music for specific information regarding these concentrations.

- Chamber Music Performance
- Collaborative Piano
- Conducting
- Instrumental
- String Pedagogy
- Voice

**Graduate Certificate in Chamber Music Performance**

This 24-credit performer’s certificate is designed for the instrumentalist who is admitted by audition to our Leonard Sorkin International Institute of Chamber Music (ICM). The major focus is to provide professional training experiences in the performance of chamber repertoire, from traditional to contemporary works composed for duos to larger ensembles. This unique program includes a combination of weekly masterclasses, coachings, and private lessons as well as financial and facility support. Students enjoy a dedicated rehearsal and office spaces, professional mentorship, and contest travel finances in addition to generous fellowships.

**MM in Music Education**

This concentration is designed for practicing music educators who wish to advance their knowledge and skills in both music and music pedagogy. An undergraduate degree in music education is required with two years teaching experience in a school setting. The program is intended to build on the student’s understanding of teaching pedagogy in any area of music education (general, choral or instrumental), strengthen the philosophical underpinnings of that teaching, bring to light opportunities for action research within a school setting, and provide additional areas of exploration including applied instrumental or vocal study, conducting technique, music theory and music history.

Core music education courses are offered both in the summer and evenings, some provided in online format. Other courses are offered during the academic year in late afternoon and evening hours.

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1. The Music Theory Placement exam is optional. The exam determines whether a student will start the theory track with MUSIC 1 or MUSIC 123. Students who do not take the exam will be required to complete the Theory Fundamentals track.

2. Elective Lesson Options: Lessons are not required for the music minor. However, students may take up to four elective credits of lessons. Concurrent enrollment in a large ensemble is required. Lessons are available per successful ensemble audition.

Elective Ensemble Options: Ensembles may be repeated for credit. Students may enroll in the same music ensemble for multiple semesters (up to 8 total and dependent upon audition), and each semester of enrollment fulfills one credit towards the minor. Audition required.

Location: Theatre 120

Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)

Contact: (414) 229-4763

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For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Music, MM**

The Department of Music offers a graduate program of study in music, preparing the student for a career in a performing area, music education, music history and literature, conducting, or theory and composition. The Master of Music program permits concentration in performance (voice or instrument), chamber music performance, conducting, music education, music history and literature, theory and composition, collaborative piano (vocal or instrumental), and string pedagogy. Students should prepare the student for a career in a performing area, music education, music history and literature, conducting, or theory and composition. The Department of Music offers a graduate program of study in music, MM
MM in Music History & Literature
This concentration is designed primarily for students who wish to do advanced study in music history and literature. For some students, the degree is a terminal degree (for example, music teachers who may wish to pursue graduate work in music history rather than in music education), while for others it serves as preparation for the study of musicology at the doctoral level.

MM in Theory and Composition
This concentration is designed for the person possessing creative talent in acquiring and utilizing the techniques and craft of musical composition. We foster development in instrumental, vocal, and electroacoustic composition, with an emphasis on contemporary and experimental techniques. Interested students should preferably have experience in computer notation, midi applications, theory, literature, and analysis pedagogic areas.

MM/MLIS Coordinated Degree Program
In cooperation with the School of Information Studies, the Department of Music offers a M.M./MLIS coordinated degree program to prepare students for positions as music librarians. Students in the program will concurrently pursue a Master of Music degree program (with a concentration in Music History and Literature) and a Master of Library and Information Science degree program. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

Graduating students have a 97% job placement rate

Imagine yourself in one of these recent alumni roles:
- Collection Services Manager, Princeton University
- Public Services Manager, Princeton University
- Arthur Mendel Music Library – Jennifer Meixelsperger ’15
- Cataloging Lead, Alexander Street Press
- Academic Database Publisher – Jacqueline Brellenthin ’14
- Collection Services Supervisor, Old Dominion University
- The Diehn Composers Room – Maddie Dietrich ’13
- Music Library Coordinator, University of Houston
- MD Anderson Library – Stephanie Lewin-Lane – ’12

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpoonan@uwm.edu, 414-229-2286)

2. A one-page resume of the applicant’s performance experience and extracurricular activities.

3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.

4. Three letters of recommendation.

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Additional Admission Requirements
Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Credits and Courses
Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

In addition, auditions, entrance exams, other prerequisites, and/or portfolio reviews are required for each concentration.

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

Music, MM/Library and Information Science, MLIS
In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
• The MLIS portion of the coordinated degrees can be completed online.
• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MM Music (Music History and Literature concentration only)
The coordinated degree program (54 credits) prepare students in the Music History and Literature concentration for positions as music librarians.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

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Admission Requirements
Application Deadlines
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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course.
in development of music from earliest times to the present plus one semester of more specialized music history.

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### Credits and Courses

Minimum degree requirement is 30 graduate credits, 27 of which must be in specified music areas, 3 of which may be in one of the other areas or in a related field.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specific Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 450</td>
<td>Introduction to Musicology</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 452</td>
<td>Collegium Musicum (1 credit each for two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 911</td>
<td>Seminar in Musicology I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Music History</td>
<td>6</td>
</tr>
<tr>
<td>Other Areas of Music</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-30</td>
</tr>
<tr>
<td>3 credits of General Electives (UG or G)</td>
<td></td>
</tr>
<tr>
<td>30 credits in Library Science if M.M./MLIS major</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30-57</td>
</tr>
</tbody>
</table>

The program must also include:

- MUSIC 314, if not previously completed.
- Reading knowledge of German, French or Italian (see below for specific details).

<table>
<thead>
<tr>
<th>Basic Required MLIS Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Title</td>
</tr>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
</tr>
</tbody>
</table>

### Important

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

### Music, MM: Chamber Music Performance

This concentration is designed for the instrumentalist who is admitted by audition to the Institute of Chamber Music at UW-Milwaukee. The major focus of the Institute of Chamber Music is to provide professional training experiences in the performance of chamber repertoire through well-matched chamber ensembles from duos through large chamber ensembles. The student who successfully completes 24 specified credits and the recital requirement receives a Performer’s Certificate from the Institute; the student who successfully completes 33 specified credits and the other degree requirements receives a Master of Music with a concentration in Chamber Music Performance.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

### Admission Requirements

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.
Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpnoonan@uwm.edu, 414-229-2286)
2. A one-page resume of the applicant’s performance experience and extracurricular activities.
3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

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Additional Admission Requirements
Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

Credits and Courses
Minimum certificate requirement is 24 credits; minimum master’s degree requirement is 33 credits. Each student follows an integrated curriculum in which all subjects are related and no course is optional.

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<tr>
<td>Select the following for 1 credit each for 4 semesters:</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MUSIC 806</td>
<td>Chamber Music Master Class</td>
<td></td>
</tr>
<tr>
<td>Select the following for 2 credit each for 4 semesters:</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>MUSIC 835</td>
<td>Chamber Music Coaching</td>
<td></td>
</tr>
<tr>
<td>Group Recital Requirement</td>
<td></td>
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<tr>
<td>Select the following for 1 credit each for 4 semesters:</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 855</td>
<td>Instrumental Master Class</td>
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</tr>
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<td>Select the following for 2 credit each for 4 semesters:</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 8XX</td>
<td>Performance (Instrument Lessons)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 33

1. Not required in Performer's Certificate.
2. Met at end of program.

Program Requirements
Students in the Institute of Chamber Music are admitted for a two-year program of study. Students are either part of an existing chamber group before entrance or, when admitted, assigned to a group. If the first-year group does not continue for a second year, the student must re-audition for membership in a new or reconstituted group that is acceptable to the faculty in order to continue for a second year of study.

At the end of the first year, each student’s performance is judged by the Director of the Institute in consultation with the members of the ICM advisory committee. If a student does not meet the required performance level, the student is prevented from continuing in the Institute for a second year. The student may, if acceptable to the Department graduate faculty, choose to follow another graduate program in the Department.

The student who successfully completes 24 specified credits and the recital requirement receives a Performer’s Certificate from the Institute; the student who successfully completes 33 specified credits and the other degree requirements receives a Master of Music with a concentration in Chamber Music Performance.

Thesis Recital
The recital should be given no sooner than the final semester of coursework. The student ensemble must present a program which has been approved by the Graduate Committee and by the Director of the Institute of Chamber Music. This requirement applies both to candidates for the MM in Chamber Music Performance and to the student working toward the Performer’s Certificate.

Comprehensive Examination
Comprehensive examinations in both music history and music theory will be required of each student in the MM in Chamber Music Performance concentration. This requirement normally follows successful completion
of a recital requirement. Comprehensives are not required of students seeking the Performer's Certificate.

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

**Music, MM: Collaborative Piano: Instrumental**

This concentration is designed for the music student with an undergraduate degree in piano who wishes to specialize as a collaborative pianist in instrumental repertoire. A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Applicant proposing concentration in Music Performance Collaborative Piano: Instrumental must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

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**Additional Admission Requirements**

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Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic
exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Credits and Courses
Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be in another music area, and 2 of which may be in one of the other areas or in a related field.

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</tr>
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<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis (Recital)</td>
<td>3</td>
</tr>
</tbody>
</table>

Performance
Select the following for 2 credits each for 4 semesters:
- MUSPERF 704 Collaborative Piano - Instrumental
Select the following for 1 credit each for 4 semesters:
- MUSPERF 706 Sonatas, Piano and String

Répertoire
- MUSIC 755 Advanced Instrumental Repertoire I: Strings
- MUSIC 757 Advanced Instrumental Repertoire I: Brass and Woodwinds

Electives
- Music 2
- General 2

Total Credits 32

The program must also include 3 credits in MUSIC 314, if not previously completed.

Program Requirements
Recital
The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee of the Department of Music, and the student must present a satisfactory recital audition before the recital may be scheduled.

Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

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

Music, MM: Collaborative Piano: Vocal
This concentration is designed for the music student with an undergraduate degree in piano who wishes to specialize as a collaborative pianist in the vocal repertoire.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree.

Applicants exhibiting deficiencies in music theory will be required to fulfill the graduate theory elective requirement: Music 680, 731, 744.

Application Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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</tr>
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<td>Aural Theory I</td>
<td>1</td>
</tr>
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<td>Aural Theory III</td>
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</tr>
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<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
<td>3</td>
</tr>
</tbody>
</table>
2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpoonan@uwm.edu, 414-229-2286)
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Additional Admission Requirements

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the auditions in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Credits and Courses

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be in another music area, and 2 of which may be in one of the other areas or in a related field.

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<td>3</td>
</tr>
</tbody>
</table>

The program must also include 3 credits in MUSIC 314, if not previously completed.

For Vocal Collaborative majors: proficiency in French, German, and Italian diction is determined through a reading of song and aria texts for collaborative and voice faculties. Students whose diction skills are deficient are required to enroll in the appropriate course without degree credit. Completion of the course with a grade of B or better satisfies the deficiency.

Program Requirements

Recital

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee of the Department of Music, and the student must present a satisfactory recital audition before the recital may be scheduled.

Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

Time Limit

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

Music, MM: Conducting: Choral Emphasis

This concentration is designed primarily for the student with an undergraduate degree in music education or performance who wishes to pursue advanced training in Conducting: Choral Emphasis plus related studies in music performance and allied areas. A student must successfully pass an audition that demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.
Applicant proposing concentration in Music Performance Conducting: Choral Emphasis must demonstrate outstanding performance and conducting skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should consult faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

Application Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286)
2. A one-page resume of the applicant’s performance experience and extracurricular activities.
3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Additional Admission Requirements
Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Credits and Courses
A student must successfully pass an audition which demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Choral Conducting students will take the UWM Basic Diction MUS ED 249 Final Exam upon entrance into the M.M. degree program. If deficiencies are found, students will take MUS ED 249 as a prerequisite course that will not count toward earned degree credits.

Minimum degree requirement is 31 graduate credits, 29 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

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</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis (Public Performance)</td>
<td>3</td>
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Conducting
Music, MM: Conducting: Instrumental

This concentration is designed primarily for the student with an undergraduate degree in music education or performance who wishes to pursue advanced training in Conducting: Instrumental plus related studies in music performance and allied areas. A student must successfully pass an audition that demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Applicant proposing concentration in Music Performance Conducting: Instrumental must demonstrate outstanding performance and conducting skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uw.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

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Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

Program Requirements

Thesis (Public Performance)
The student must present a recital demonstrating conducting abilities. Performance of literature from a variety of style periods, including a twentieth-century composition by an American composer, should be included. The proposed program must be approved by the Graduate Committee before the recital may be scheduled. Candidates must also prepare a written document, following all procedures as dictated by the Graduate Committee, in consultation with their main advisor. (The student should consult with the primary faculty advisor for individual area guidelines.)

Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the thesis requirement.

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

Music, MM: Conducting: Instrumental

Applicant proposing concentration in Music Performance Conducting: Instrumental must demonstrate outstanding performance and conducting skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

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Application Requirements

Admission
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A student must successfully pass an audition which demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

**Credits and Courses**
Minimum degree requirement is 31 graduate credits, 29 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

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<tr>
<td>MUSIC 553</td>
<td>Advanced Conducting I</td>
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<td>MUSIC 554</td>
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<td>MUSIC 772</td>
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<td>Literature</td>
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<tr>
<td>MUSIC 715</td>
<td>Choral Literature</td>
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<tr>
<td>MUSIC 799</td>
<td>Advanced Independent Work (Orchestral Literature)</td>
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**Performance**

1 credit each for 2 semesters: 2

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**Ensemble**

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<td>Ensemble</td>
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**Electives**

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</thead>
<tbody>
<tr>
<td>General</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 31

1 Ensemble will be assigned upon audition.

The program must also include MUSIC 314, if not previously completed.

**Program Requirements**

**Thesis (Public Performance)**
The student must present a recital demonstrating conducting abilities. Performance of literature from a variety of style periods, including a twentieth-century composition by an American composer, should be included. The proposed program must be approved by the Graduate Committee before the recital may be scheduled. Candidates must also prepare a written document, following all procedures as dictated by the Graduate Committee, in consultation with their main advisor. (The student should consult with the primary faculty advisor for individual area guidelines.)

**Comprehensive Examination**
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the thesis requirement.

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

**Music, MM: Music Education**

This concentration is designed for practicing music educators who wish to advance their knowledge and skills in both music and music pedagogy. An undergraduate degree in music education is required with two years teaching experience in a school setting. The program is intended to build on the student’s understanding of teaching pedagogy in any area of music education (general, choral or instrumental), strengthen the philosophical underpinnings of that teaching, bring to light opportunities for action research within a school setting, and provide additional areas of exploration including applied instrumental or vocal study, conducting technique, music theory and music history.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished...
Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

**Application Requirements**

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpnoonan@uwm.edu, 414-229-2286)
2. A one-page resume of the applicant's performance experience and extracurricular activities.

3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

**Additional Admission Requirements**

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicant must have an undergraduate degree in music education with certification and teaching experience, except by special permission.

Applicant should contact faculty in the Music Education area to inquire about other entrance requirements.

An audition is required only if the applicant plans to take performance lessons, or if an audition is required for acceptance into an emphasis program (instrumental conducting or choral conducting).

**Concentration Admission**

The same requirements apply as those stated under Master of Music except that the audition is only required if the student plans to take performance lessons at the 700 level, or if an audition is required for acceptance into an emphasis program (instrumental conducting or choral conducting). Applicants should have an undergraduate degree in music education with certification and teaching experience except by special permission.

**Credits and Courses**

Minimum degree requirement is 30 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS ED 710</td>
<td>Research in Music Education</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 777</td>
<td>Foundations of Music Education</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 778</td>
<td>Recent Developments in Music Education</td>
<td>3</td>
</tr>
<tr>
<td>MUS ED 990</td>
<td>Thesis or Final Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Education</td>
<td>7</td>
</tr>
<tr>
<td>Music Performance, Conducting, Theory, Music History, or related areas</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Credits**: 30
Program Requirements

Thesis or Final Project
A formal written thesis, lecture/recital, composition with pedagogical intent and analysis, major annotated bibliography, curriculum synthesis, or other type of music education project is required. The student must submit a written proposal to the major advisor to be approved by the Graduate Committee prior to registration.

Examination in the Major
The student must pass a final written examination in music and music education. This exam will reflect the nature of the student’s program of studies. Further questions concerning the exam should be directed toward the student’s major advisor.

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

Music, MM: Music History and Literature
This concentration is designed primarily for students who wish to do advanced study in music history and literature. For some students, the degree is a terminal degree (for example, music teachers who may wish to pursue graduate work in music history rather than in music education), while for others it serves as preparation for the study of musicology at the doctoral level.

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Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

Application Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

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Additional Admission Requirements
Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicant must have a reading knowledge of a language other than English, preferably German.

Applicant must submit two examples of written work (essays, research papers).
Credits and Courses

Minimum degree requirement is 30 graduate credits, 27 of which must be in specified music areas, 3 of which may be in one of the other areas or in a related field.

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<thead>
<tr>
<th>Code</th>
<th>Specific Requirements</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 450</td>
<td></td>
<td>Introduction to Musicology</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 452</td>
<td></td>
<td>Collegium Musicum (1 credit each for two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 710</td>
<td></td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td></td>
<td>Graduate Seminar in Music History</td>
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</tr>
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<td></td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 911</td>
<td></td>
<td>Seminar In Musicology I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td></td>
<td>Research of Thesis</td>
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<tbody>
<tr>
<td>Music History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Areas of Music</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3-30 credit hours

- 3 credits of General Electives (UG or G)
- 30 credits in Library Science if M.M./MLIS major

Total Credits: 30-57

The program must also include:

- MUSIC 314, if not previously completed.
- Reading knowledge of German, French or Italian (see below for specific details).

Program Requirements

**Language Requirement**
Candidates for the Master of Music degree with a concentration in Music History and Literature must demonstrate a reading knowledge of German, French, or Italian. The examiner, a member of the music history faculty, will choose several paragraphs totaling approximately 500 words taken from a suitable book or periodical article approved by the advisor, and dealing with a musical topic, and ask for a written translation. The candidate may use a dictionary. The results of the test will be communicated by the examiner to the Music History and Literature area Chair. Candidates failing the exam the first time may take it a second time, provided an appropriate interval has elapsed.

**Thesis**
The student must submit an acceptable thesis or thesis equivalent, which must be read and approved by both the student’s thesis advisor and a second reader belonging to the Graduate Faculty. Appropriate thesis equivalents may be:

1. Two revised or expanded seminar papers totaling between 30 and 40 pages of text; or
2. One revised or expanded seminar paper, plus one of the following:
   - A comprehensive review essay of an edition or major musical monograph.
   - A concentrated study of the life and work of a musician or musical scholar.

**Comprehensive Examination**
The student must pass final written comprehensive examinations in both music history and music theory.

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

**Music, MM: Performance: Guitar**

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill. The student may specialize in either classical, finger-style, or jazz guitar. A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Applicant proposing concentration in Music Performance Guitar must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM. Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 703), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 704); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

**Major Professor as Advisor**
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Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition.

Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Credits and Courses
Minimum degree requirement is 30 graduate credits, 28 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Performance

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSPERF 7XX</td>
<td>Performance Credits</td>
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Advanced Performance Repertoire

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 765</td>
<td>Advanced Instrumental Repertoire I: Guitar</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 766</td>
<td>Advanced Instrumental Repertoire II: Guitar</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music (U/G or G)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General (U/G or G)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

The program must also include 3 credits in MUSIC 314, if not previously completed.

Program Requirements

Recital
The recital should be given no sooner than the final semster of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

Ensemble Participation
The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree.
A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

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

Music, MM: Performance: Keyboard

This concentration is designed for the music student with an undergraduate degree in piano who wishes to specialize as a collaborative pianist in performance and repertoire. A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Applicant proposing concentration in Music Performance Keyboard must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

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3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
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Credits and Courses

Minimum degree requirement is 30 graduate credits, 28 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

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</tr>
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<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis (or Final Project)</td>
<td>3</td>
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</tbody>
</table>

**Performance**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MUSPERF 7XX</td>
<td>Performance Credits</td>
<td>12</td>
</tr>
</tbody>
</table>

**Advanced Performance Repertoire**

Select 4 credits in voice or chosen instrument (see below) 4

**Electives**

Music (U/G or G) 3

General (U/G or G) 3

**Total Credits** 34

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**Advanced Performance Repertoire**

**Strings**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 755</td>
<td>Advanced Instrument Repertoire I: Strings</td>
<td>2</td>
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</tbody>
</table>

Select the following for 1 credit each for 2 semesters: 2

- MUSIC 782 Symphony Orchestra

**Wind, Brass, Percussion**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 757</td>
<td>Advanced Instrument Repertoire I: Brass and Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>or MUSIC 763</td>
<td>Advanced Percussion Performance Repertoire</td>
<td></td>
</tr>
</tbody>
</table>

Select 2 credits from the following: 2

- MUSIC 758 Advanced Instrument Repertoire II: Brass and Woodwinds
- MUSIC 782 Symphony Orchestra
- MUSIC 789 Wind Ensemble
- MUSIC 740 Symphony Band (previously 788)

**Voice**

<table>
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<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 753</td>
<td>Advanced Song Literature I</td>
<td>2</td>
</tr>
</tbody>
</table>

Select 2 credits from the following: 2

- MUSIC 457 Opera Theatre
- MUSIC 478 Finger-Style Guitar: History and Performance
- MUSIC 795 Concert Chorale
- MUSIC 798 University Advanced Women’s Choir

**Keyboard**

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MUSIC 751</td>
<td>Advanced Piano Repertoire I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 752</td>
<td>Advanced Piano Repertoire II</td>
<td>2</td>
</tr>
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**Guitar**

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<tbody>
<tr>
<td>MUSIC 765</td>
<td>Advanced Instrument Repertoire I: Guitar</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 766</td>
<td>Advanced Instrument Repertoire II: Guitar</td>
<td>2</td>
</tr>
</tbody>
</table>

The program must also include 3 credits in MUSIC 314, if not previously completed.

---

**Program Requirements**

**Recital**

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

**Comprehensive Examination**

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

**Ensemble Participation**

The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

**Time Limit**

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

---

**Music, MM: Performance: Percussion**

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill in percussion. A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Applicant proposing concentration in Music Performance Percussion must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished
Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

Application Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<tr>
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<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
<td>3</td>
</tr>
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2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286)

2. A one-page resume of the applicant’s performance experience and extracurricular activities.

3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.

4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Additional Admission Requirements
Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Credits and Courses
Minimum degree requirement is 30 graduate credits, 28 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

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<td>MUSIC 990</td>
<td>Research of Thesis</td>
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Performance

MUSPERF 7XX | Performance Credits | 12

Advanced Performance Repertoire

MUSIC 757 | Advanced Instrumental Repertoire I: Brass and Woodwinds | 2

or MUSIC 763 | Advanced Percussion Performance Repertoire | 2

Select 2 credits in one of the following:

MUSIC 758 | Advanced Instrumental Repertoire II: Brass and Woodwinds | 2

MUSIC 782 | Symphony Orchestra | 3
Graduate work if they wish to be considered for a UWM Distinguished Examination. While prospective students are not required to submit Graduate Record Examination scores, they are strongly advised to take these tests before or early in their applicant's performance may be accepted in lieu of an in-person audition. Emphasis must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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<td>MUSIC 990</td>
<td>Research of Thesis</td>
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Performance
MUSPERF 7XX Performance Credits 12

Advanced Performance Repertoire
MUSIC 755 Advanced Instrumental Repertoire I: Strings 2

Select the following for 1 credit each for 2 semesters:
MUSIC 782 Symphony Orchestra 2

Electives
Music (U/G or G) 3

The program must also include 3 credits in MUSIC 314, if not previously completed.

Program Requirements
Recital
The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

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

Music, MM: Performance: Vocal Emphasis
This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill.

Applicant proposing concentration in Music Performance Vocal Emphasis must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

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**Advanced Performance Repertoire**

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 753</td>
<td>Advanced Song Literature I</td>
<td>2</td>
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</tbody>
</table>

**Select 2 credits in one of the following:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 457</td>
<td>Opera Theatre</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 795</td>
<td>Concert Chorale</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 798</td>
<td>University Advanced Women’s Choir</td>
<td>2</td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music (U/G or G)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
The program must also include 3 credits in MUSIC 314, if not previously completed.

**Program Requirements**

**Recital**
The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

**Comprehensive Examination**
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

**Ensemble Participation**
The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

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

**Music, MM: Performance: Woodwinds, Brass, and Percussion**
This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill. The student may specialize in either woodwinds, brass, or percussion.

Applicant proposing concentration in Music Performance Woodwinds, Brass, or Percussion must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM. Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Director of Graduate Studies. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286)

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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</thead>
<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:
1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286)
2. A one-page resume of the applicant’s performance experience and extracurricular activities.
3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Additional Admission Requirements
Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

In addition, auditions, entrance exams, other prerequisites, and/or portfolio reviews are required for each concentration.

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Credits and Courses
Minimum degree requirement is 30 graduate credits, 28 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
<td>3</td>
</tr>
<tr>
<td>MUSPERF 7XX</td>
<td>Performance Credits</td>
<td>12</td>
</tr>
</tbody>
</table>

Advanced Performance Repertoire

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 757</td>
<td>Advanced Instrumental Repertoire I: Brass and Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>or MUSIC 763</td>
<td>Advanced Percussion Performance Repertoire</td>
<td></td>
</tr>
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Select 2 credits in one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 758</td>
<td>Advanced Instrumental Repertoire II: Brass and Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 782</td>
<td>Symphony Orchestra</td>
<td></td>
</tr>
<tr>
<td>MUSIC 789</td>
<td>Wind Ensemble</td>
<td></td>
</tr>
<tr>
<td>MUSIC 740</td>
<td>Symphony Band (previously 788)</td>
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Electives

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<tr>
<td>Music (U/G or G)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General (U/G or G)</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 33

The program must also include 3 credits in MUSIC 314, if not previously completed.

Program Requirements

Major Professor as Advisor

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

Recital

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

Ensemble Participation

The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master’s degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations),
are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

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

**Music, MM: String Pedagogy**
This concentration is designed for the music student who wishes to concentrate primarily on the pedagogy of his/her major performing string instrument. A student must successfully pass an audition at a satisfactory level of performance for admission to the program.

Applicant proposing concentration in Music Performance String Pedagogy must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

### Application Requirements

#### Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

#### Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<td>MUSIC 127</td>
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</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
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<td>MUSIC 226</td>
<td>Aural Theory III</td>
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</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpoonan@uwm.edu, 414-229-2286)

2. A one-page resume of the applicant's performance experience and extracurricular activities.

3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.

4. Three letters of recommendation.

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#### Additional Admission Requirements
Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicant should contact faculty in the appropriate string and String Pedagogy areas to inquire about audition and additional entrance requirements.

A student must successfully pass an audition at a satisfactory level of performance for admission to the program.

#### Credits and Courses

Minimum degree requirement is 34 graduate credits, all of which must be in specified music areas.
Program Requirements

Recital and Lecture Demonstration
The recital and lecture demonstration may be given at any time before the completion of the degree program.

The recital consists of two parts:

1. A performance of a minimum of 30-45 minutes of music that has been approved by the major teacher
2. A lecture totaling approximately 30 minutes to be given before, during, or after the recital, in which the candidate discusses one or more pieces to be performed on the recital program, with emphasis on pedagogical values of the piece(s), the difficulties, and how they are overcome

Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

Ensemble Participation
The student is required to participate in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument; in two of these semesters the student must be enrolled in Symphony Orchestra for credit (see Performance Credits above).

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

Music, MM: Theory and Composition

This concentration is designed for the person possessing creative talent in acquiring and utilizing the techniques and craft of musical composition through theory, literature and analysis. We foster development in instrumental, vocal, and electro-acoustic composition, with an emphasis on contemporary and experimental techniques. Interested students should preferably have experience in computer notation, midi applications, theory, literature, and analysis pedagogic areas.

Applicant must submit a portfolio of original compositions which could include CD/DVD/computer software files/midi programs in addition to at least one excerpt and one complete composition in conventional notation or analytical research paper(s) or presentations submitted or presented in a regional or national theory society organization, computer assisted analysis or presentation in such areas as Schenkerian analysis or Spectromorphology in acoustic, electronic or acoustic theory.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

Admission Requirements

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

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<tbody>
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</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 991</td>
<td>Recital And Lecture Demonstration</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of the following (1 credit each for 2 semesters):

- MUSPERF 541 Master Class in String Instruments, Violin 2
- MUSPERF 542 Master Class in String Instruments, Viola 2
- MUSPERF 543 Master Class in String Instruments, Violoncello 2
- MUSPERF 7XX String Instruments Violin/Viola/Cello (2 cr each for 4 semesters) 8

Select the following for 1 credit each for 2 semesters:

- MUSIC 782 Symphony Orchestra 2
- MUSIC 755 Advanced Instrumental Repertoire I: Strings 2
- MUSIC 756 Advanced Instrumental Repertoire II: Strings 2

Select one of the following:

- MUSIC 718 or MUSIC 722 Violin and Viola Pedagogy Level I 2
- MUSIC 719 or MUSIC 723 Violin and Viola Pedagogy Level II 2

Select the following:

- MUSIC 720 Violin Pedagogy Level III 2
- MUSIC 721 Viola Pedagogy Level III 2
- MUSIC 724 Cello Pedagogy Level III 2
- MUSIC 829 Seminar: Historical Perspectives On Violin, Viola And Cello Pedagogy 2

Total Credits 34

University of Wisconsin-Milwaukee
1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

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<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286)
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

### Additional Admission Requirements

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

### Concentration Admission

Applicant should preferably have experience in computer notation, MIDI applications, theory, literature, and analysis.

Applicant must submit a portfolio of original compositions, which could include CD / DVD / computer software files / MIDI programs and must include at least one excerpt and one complete composition in conventional notation.

Applicant also could include one or both of the following:

1. Analytical research papers or presentations submitted or presented at regional or national theory, composition, or computer music conferences.
2. Computer-assisted analysis or presentations in such areas as Schenkerian analysis, spectromorphology in acoustic, electronic, or acoustic theory.

Applicant should possess keyboard proficiency of a level permitting the candidate to sight-read music of moderate difficulty and performance capability of compositions at the level of an early Beethoven sonata or Bach's Two-part Inventions.

### Credits and Courses

Minimum degree requirement is 32 graduate credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 710</td>
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<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History.</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 731</td>
<td>Contemporary Composition Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 744</td>
<td>Graduate Theory Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
<td>3</td>
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<tr>
<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
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</tr>
<tr>
<td>MUSIC 420</td>
<td>Advanced Computing and Music</td>
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</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

### Composition Requirement

Select the following for 2 credits each for 4 semesters:

- MUSIC 761 Advanced Composition

### Electives

- Music Theory
- Music

Total Credits 32

### Recommended Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 420</td>
<td>Advanced Computing and Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music:</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Electives must be chosen in accordance with the needs of the individual candidate and with the advice and consent of the advisor or major professor.

### Program Requirements

#### Thesis

The candidate for the Master of Music degree must complete one of the following:

- A composition of significant breadth will serve as the thesis for the M.M. in Music Theory and Composition. It may be for large or chamber ensemble with or without electronic component or for the electronic medium alone. Completion of the thesis must include its public performance. If the thesis composition is written for a large
university ensemble (orchestra, wind ensemble, choir) a hearing of a single rehearsal of the entire composition will suffice.

• A research project which shall be either a paper or a theoretical program evidencing both a capacity for research and originality in creative analysis or computer composition application evidencing both research capabilities and analytical insight.

Comprehensive Examination
The student must pass final comprehensive examinations in both music history and music theory.

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

The Theatre Department's mission is to educate students in the practice and study of theatre and to encourage students' creative and critical development. It supports the application of theatre skills in lasting, strong, and meaningful ways throughout their lives.

Our urban setting provides access to a thriving professional arts community with opportunities to engage with the region's many cultural groups and institutions through service learning, internships, and fieldwork. These experiences support students interested in developing as artists, educators, and scholars and by actively encouraging them to be theatre makers.

Theatre study, in all degree programs within the department, begins with a common core of course experiences designed to provide learning opportunities encouraging participants to engage with theatre as a way of seeing, understanding, and communicating culture.

Programs

- Arts and Social Entrepreneurship, Undergraduate Certificate
  (p. 312)
- Theatre Teaching Certification, Minor (p. 313)
- Theatre, BA (p. 313)
- Theatre, BFA: Performance (p. 318)
- Theatre, BFA: Production (p. 323)
- Theatre, Minor (p. 326)

Theatre Courses

THEATRE 100 Introduction to the Theatre
3 cr. Undergraduate.
Introduction to the theatre as a form of artistic, social and human expression from point-of-view of both theatre audience and theatre artist.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 101 Acting for Non-majors
3 cr. Undergraduate.
An introduction to basic acting techniques of personalization, focus, and scene study explored through participatory and collaborative exercises and assignments.
Prerequisites: Non-Theatre major.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 108 Introduction to Musical Theatre
3 cr. Undergraduate.
Techniques of acting and singing in the performance of musical theatre. Classroom exercises, lectures, and classroom performance assignments.
Prerequisites: none.
Course Rules: May be retaken to max of 6 cr.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

THEATRE 110 Fundamentals of the Actor's Process
3 cr. Undergraduate.
Basic acting techniques of personalization, focus of attention, theatricality and scenic truth explored through exercises, improvisation, development of ensemble and solo and partnered performance
Prerequisites: Theatre major or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 111 Theatre Games
3 cr. Undergraduate.
An introduction to a wide variety of improvisations and games which are designed to free and channel the self expression of performers and non-performers.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 120 Performance and Popular Culture
3 cr. Undergraduate.
Elements of theatre in live performance, television programs, periodical and television advertisements, film, and music video.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2018, Spring 2017, Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 150 Multicultural America:
3 cr. Undergraduate.
Cross cultural study of US ethnic and racial identities through materials drawn from a variety of theatrical arts practices.
Prerequisites: none
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: A, CD
Current Offerings: http://uwm.edu/schedule

THEATRE 202 Theatre Practicum
1-4 cr. Undergraduate.
Practical work on live performance productions. Credit earned by serving on publicity, house, stage, sound, light, or costume crews, or by stage managing or performing.
Prerequisites: Theatre 214(P), 225(P), 275(P); or cons instr.
Course Rules: May be retaken to max of 4 cr.
Last Taught: Summer 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 204 Theatre and Social Change
3 cr. Undergraduate.
Introduction to the study, methodologies, and practice of participatory theatre including happenings, environmental theatre, therapeutic theatre, and celebratory theatre.
Prerequisites: none
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule
THEATRE 213 Play Analysis
3 cr. Undergraduate.
Methods of analysis of the dramatic text for production; the elements of a play through discussion and written analysis of selected works.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 214 Stagecraft
4 cr. Undergraduate.
Principles and practices of theatrical construction techniques for scenery and props, lighting and sound installation emphasizing safety and craftsmanship. Requires scheduled work in production studios under faculty supervision.
Prerequisites: none
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 215 Properties Production
3 cr. Undergraduate.
Introductory properties shop/management artisan skills with basic construction and finishing techniques for stage properties.
Prerequisites: none
Current Offerings: http://uwm.edu/schedule

THEATRE 218 Computer Modeling and Graphics for Live Performance
3 cr. Undergraduate.
Development of basic techniques in computer aided design and graphic arts for the theatre.
Prerequisites: none
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

THEATRE 219 Computer Assisted Drafting for the Theatre
3 cr. Undergraduate.
Development of skills in computer aided drafting techniques for scenery, properties, and lighting.
Prerequisites: Theatre 218(P) or cons instr.
Course Rules: Specific computer hardware and/or software is required. Check with instr for specifics.
Current Offerings: http://uwm.edu/schedule

THEATRE 224 Make-Up
3 cr. Undergraduate.
Emphasis on materials, effects of light, color and character analysis.
Prerequisites: none
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 225 Costume Construction
4 cr. Undergraduate.
Mechanics and technology of art of costuming. All aspects of costumer's craft surveyed including practical work in shop.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 230 Acting 2: Text and Performance
3 cr. Undergraduate.
Basic acting techniques in realism and extended realism through scene work and exercises exploring dramatic action, focus of attention and script analysis.
Prerequisites: Theatre 110(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

THEATRE 231 Introduction to Voice and Speech
3 cr. Undergraduate.
Lectures and exercises designed to begin the development of a more open, resonant, and flexible speaking voice for everyday use.
Prerequisites: none.
Last Taught: Fall 2017, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 236 Theatre Production and Design
3 cr. Undergraduate.
Design process exploring styles, methods, and presentation for scenery and costumes in traditional and non-traditional theatre.
Prerequisites: Theatre 214(P) or 225(P
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 260 Storytelling:
3 cr. Undergraduate.
Development of skills to locate, analyze, and tell stories from multicultural sources and ranging from personal experience to myths and legends.
Prerequisites: none, except as required for specific topic.
Course Rules: May be retaken w/chg in topic to max of 3 sem.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

THEATRE 275 Performing Arts Management
3 cr. Undergraduate.
Exploration of stage and theatre management processes including rehearsal and production management techniques and introductory management principles for non-profit theatre
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 285 Costume Construction 2
3 cr. Undergraduate.
Construction of costumes; advanced tailoring techniques, practical application of classwork in costume shop.
Prerequisites: Theatre 225(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

THEATRE 301 Theatrical Millinery
3 cr. Undergraduate.
Projects in costume accessory construction. Emphasis on millinery and hat blocking.
Prerequisites: Theatre 225(P) or cons instr.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule
THEATRE 303 Introduction to Design and Production for Performance
3 cr. Undergraduate.
Exploring design concepts for performance / theatrical production environments. Emphasis on different production styles, creativity, and design collaboration.
Prerequisites: none.
General Education Requirements: A
Last Taught: Spring 2017, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 304 Costume Design
3 cr. Undergraduate.
Designing the play, understanding the basic principles of costume design. Rendering technique, color theory and the elements of design are covered.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

THEATRE 305 The Theatrical Experience:
3 cr. Undergraduate.
Performances, demonstrations, and lectures focusing on specific aspects of theatrical production. Attendance at live theatrical performances required
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 308 Advanced Makeup:
3-6 cr. Undergraduate.
Advanced Makeup techniques for stage and film.
Prerequisites: Theatre 224(P); or cons instr.
Course Rules: Counts as repeat of Theatre 690. May be retaken to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

THEATRE 311 Advanced Improvisation
3 cr. Undergraduate.
Advanced study in a wide variety of long-form acting improvisations designed to free and channel self expression of performers and non-performers.
Prerequisites: Theatre 111(P) or cons instr. Improvisational performance attendance required.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 314 Special Effects for Stage Scenery
3 cr. Undergraduate.
Practical design, fabrication and installation of scenic effects emphasizing the use of pneumatics, electric motors and sensors.
Prerequisites: Theatre 214(P).
Last Taught: Fall 2017, Fall 2014, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

THEATRE 315 Advanced Properties Production
3 cr. Undergraduate.
Exploring advanced prop making processes and products for the stage and studio.
Prerequisites: Theatre 215(P) or 225(P) or cons instr.
Last Taught: Fall 2015, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

THEATRE 318 Scene Design
3 cr. Undergraduate.
Development of design sensibility for stage set design from script analysis, research, and initial concept to model making of final design.
Prerequisites: Theatre 236(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

THEATRE 319 Scenic Painting
3 cr. Undergraduate.
Development of skills in stage painting techniques for scenery and properties.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

THEATRE 320 Arts and Social Entrepreneurship
3 cr. Undergraduate.
Exploring the development of communities through cultural and performing practices through community-based work in the arts.
Prerequisites: Theatre 204(P) or 260(460)(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

THEATRE 321 The Theatre: Beginnings Through Realism
3 cr. Undergraduate.
Study of the development of theatre art and its practice, performance, and scripts, from classical antiquity through the 19th century.
Prerequisites: soph st; satisfaction of GER OWC-A req.
General Education Requirements: OWCB, A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 322 The Theatre: Modern and Contemporary Period
3 cr. Undergraduate.
Study of the development of theatre art and its practice, performance, and scripts from 1900 to the present.
Prerequisites: soph st; satisfaction of GER OWC-A req.
General Education Requirements: OWCB, A
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 323 Special Topics in World Theatre:
3 cr. Undergraduate.
Exploration of theatre and ritual in cultures and countries around the world.
Prerequisites: May be retaken with chg in topic to 6 cr max; Theatre 321(P) or 322(P) or cons instr.
Last Taught: Spring 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule
THEATRE 324 Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre
3 cr. Undergraduate.
Survey of Latin American, Caribbean, and U.S. Latina/o theatre and performance. History and cultures of the Americas that shape these productions.
Prerequisites: js st.
Course Rules: Counts as repeat of LACS 324 or Latino 324. LACUSL 324 & Theatre 324 are jointly-offered; they count as repeats of one another.
General Education Requirements: A, CD
Last Taught: Fall 2016, Spring 2015, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

THEATRE 325 History of Costume
3 cr. Undergraduate.
Study of costume and fashion from Egyptians to present. Emphasis on the sociological and cultural changes in patterns of dress and behavior.
Prerequisites: none.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

THEATRE 327 The Digital Theatre - Pocket Tech
3 cr. Undergraduate.
Using everyday technology to explore burgeoning digital storytelling techniques fundamental to theatre arts.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

THEATRE 330 Acting Topics:
3 cr. Undergraduate.
Exploration of advanced acting techniques through various topic changes.
Prerequisites: Theatre 230(P); & cons instr.
Course Rules: May be retaken with change in topic.
Current Offerings: http://uwm.edu/schedule

THEATRE 332 Tailoring
3 cr. Undergraduate.
Construction of costume: tailoring techniques with an emphasis on textiles, cutting, fitting, and alterations.
Prerequisites: Theatre 285(P).
Last Taught: Spring 2015, Spring 2013, Spring 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

THEATRE 337 Sound Production and Digital Editing for Stage and Studio
3 cr. Undergraduate.
Exploration of sound recording and playback techniques for live performance including digital editing and computer based show control systems.
Prerequisites: none.
Last Taught: Spring 2017, Spring 2015, Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

THEATRE 338 Lighting Production
3 cr. Undergraduate.
Hands-on exploration of seeing, making, and controlling light with emphasis on its practical application in live performance, video/film, architecture, and experiential design.
Prerequisites: none.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

THEATRE 339 Stage Combat
3 cr. Undergraduate.
Basic techniques of unarmed stage combat focusing on safety, partnering skills, and technical proficiency.
Prerequisites: none.
Last Taught: Fall 2009.
Current Offerings: http://uwm.edu/schedule

THEATRE 343 Patternmaking and Draping
3 cr. Undergraduate.
Introduction to principles of draping techniques applied to stage costumes.
Prerequisites: Theatre 343(P).
Last Taught: Fall 2015, Fall 2013, Spring 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

THEATRE 354 Draping
3 cr. Undergraduate.
Introduction to principles of draping techniques applied to stage costumes.
Prerequisites: Theatre 343(P).
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

THEATRE 357 Digital Audio Workstations for Stage and Studio
3 cr. Undergraduate.
Explore computer technology technology to create, manipulate, edit and render digital audio for performance and recording. Music, sound effects, synthesis, and MIDI are focus topics.
Prerequisites: none, online course.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

THEATRE 359 Playwriting
3 cr. Undergraduate/Graduate.
Playwriting process through in-class exercises, writing assignments, critical analysis, and discussion.
Prerequisites: jr st
Course Rules: May be retaken w/ chg in topic to max of 6 cr.
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

THEATRE 360 Theatre Practices:
1-6 cr. Undergraduate.
Applied theatre practices and/or performance projects, that are developed through research, service-learning or in community settings.
Prerequisites: Theatre 260(460)(P) or cons instr.
Course Rules: May be retaken w/ chg in topic to max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 380 Stage Management
3 cr. Undergraduate.
Development of skills for the successful management of theatrical productions from auditions through rehearsal and performance.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
THEATRE 400 Foundations
1 cr. Undergraduate.
Exercises from various disciplines to stretch, energize, and prepare for the
day's work in acting and production.
Prerequisites: Admis. to Theatre BFA Acting track.
Course Rules: None.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

THEATRE 401 Fabric Painting and Dyeing
3 cr. Undergraduate.
Study and practical work in dyeing and painting fabrics for stage
purposes.
Prerequisites: Theatre(ThrPTTP) 225(P) or 215(P); or cons instr
Last Taught: Fall 2015, Fall 2013, Fall 2011, Spring 2010.
Current Offerings: http://uwm.edu/schedule

THEATRE 407 Contemporary Theatre Performance:
1-3 cr. Undergraduate.
Study of plays and current productions, playwrights, directors, actors, and
theatrical practices in selected cities. Credits determined in consultation
with instructor.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

THEATRE 408 Acting in Musical Theatre
3 cr. Undergraduate.
Scene study in musical theatre, developing character through song, movement and text.
Prerequisites: Theatre 110(P) or cons instr.
Last Taught: Fall 2016, Fall 2014, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

THEATRE 410 Stage Directing
3 cr. Undergraduate/Graduate.
Basic skills of staging, play analysis, rehearsal technique, and production organization.
Prerequisites: jr st; Theatre 213(P) & 230 (P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

THEATRE 412 Career Preparation and Development
1-2 cr. Undergraduate.
Explore theatre careers, research job search methods/ processes-
portfolio, resume, webpages- for job interviews/auditions and create a
long-range career plan.
Prerequisites: none.
Course Rules: May be retaken for cr.
Current Offerings: http://uwm.edu/schedule

THEATRE 415 Casting and Molding for the Stage
3 cr. Undergraduate.
Study of one-part and two-part molding and casting applications
including sculpting for mask making and stage properties.
Prerequisites: Theatre 215(P) or 225(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

THEATRE 418 Lighting Studio
3 cr. Undergraduate.
Exploration of elements and principles of lighting design and creative
design process.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

THEATRE 430 Stage Voice and Speech 1
3 cr. Undergraduate.
Exploration of vocal anatomy, breath and breath support for speech, individual vocal habits and the actor's vocal warm-up.
Prerequisites: Admis to Theatre BFA Acting track.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 431 Stage Voice and Speech 2
3 cr. Undergraduate.
Continuation of Theatre 430.
Prerequisites: Theatre 430(P).
Current Offerings: http://uwm.edu/schedule

THEATRE 432 Advanced Theatre Practicum
1-6 cr. Undergraduate.
Advanced level practical work on live stage or studio events in any area of production, design, management or performance.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

THEATRE 433 Stage Voice and Speech 3
3 cr. Undergraduate.
Continuation of Theatre 432.
Prerequisites: Theatre 432(P).
Current Offerings: http://uwm.edu/schedule

THEATRE 434 Stage Voice and Speech 4
3 cr. Undergraduate.
Continuation of Theatre 433.
Prerequisites: Theatre 433(P).
Current Offerings: http://uwm.edu/schedule

THEATRE 435 Production Management
3 cr. Undergraduate.
Theatre management processes utilizing leadership, problem-solving, and project management skills for budgeting, scheduling, personnel and facility management, and season planning.
Prerequisites: Theatre 275(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

THEATRE 436 Sound Design and Digital Editing
3 cr. Undergraduate.
Skill development in designing sound and using digital editing systems to create sound effects, sound-scaping and basic music composition for storytelling on the stage.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

THEATRE 440 Physical Performance 1
3 cr. Undergraduate.
Training and exercises to create physical awareness, skills, and presence in space for performance through movement, improvisation, and sensory/composition work.
Prerequisites: Admis to Theatre BFA acting track.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
THEATRE 441 Physical Performance 2
3 cr. Undergraduate.
Physical exercises, improvisation, and text work to deepen the connection between actor and imagination utilizing full bodywork for creating character and dramatic action.
Prerequisites: admits to Theatre BFA acting track; Theatre 440(P).
Current Offerings: http://uwm.edu/schedule

THEATRE 443 Pattern Making II
3 cr. Undergraduate.
Continuation of Pattern Making with an emphasis on period styles and menswear patterns.
Prerequisites: Theatre 343(240)(P).
Last Taught: Fall 2011, Fall 2010, Fall 2009, Fall 2004.
Current Offerings: http://uwm.edu/schedule

THEATRE 448 How to be a Teaching Artist
3 cr. Undergraduate.
Understanding and utilizing creative drama and other arts-in-education techniques to enhance experiential learning in classrooms and other educational venues.
Prerequisites: soph st or cons instr.
Last Taught: Fall 2017, Spring 2016, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

THEATRE 463 Master Class in Professional Theatre Study
1 cr. Undergraduate.
Ongoing development of aesthetic and professional philosophies and practices in performance.
Prerequisites: Admits to Theatre BFA acting track or writ cons instr
Course Rules: May be retaken to max of 6 cr.
Last Taught: Fall 2017, Fall 2016, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

THEATRE 465 Theatre Capstone:
3 cr. Undergraduate.
Theatre techniques to enhance communication, mediation, and leadership in community, cultural, educational, and business settings. Community-based project work required.
Prerequisites: Theatre 320(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 470 Acting Technique 3
3 cr. Undergraduate.
Development of basic acting skills and application to texts drawn from American realism. Emphasis on psycho-physical technique, dramatic action, personalization, expressive use of self.
Prerequisites: Theatre Major with admission to BFA acting track.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 471 Acting Technique 4
3 cr. Undergraduate.
Fundamentals of acting in classical texts.
Prerequisites: Admits to Theatre BFA acting track, Theatre 470(P).
Current Offerings: http://uwm.edu/schedule

THEATRE 472 Performance Workshop Capstone
2-4 cr. Undergraduate.
Workshops in creating performance under faculty supervision.
Prerequisites: Theatre 320(P) or 359(P) or 218(P); or cons instr.
Course Rules: May be retaken for cr.
Current Offerings: http://uwm.edu/schedule

THEATRE 473 Theatre in Elementary Education
3 cr. Undergraduate.
Theatre experiences for growth and development of elementary school child. Discussion, lectures, and experimentation, analysis of materials, age groups, and situations. Teaching of children's theatre classes.
Prerequisites: C or better in Theatre 448(P), soph st, or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 474 Theatre in Secondary Education
3 cr. Undergraduate.
Methods and philosophy of teaching theatre in the secondary school. Theory and practice in solving problems arising in practical teaching situations. Observation of Theatre classes.
Prerequisites: Admis to Theatre BFA acting track or writ cons instr.
Current Offerings: http://uwm.edu/schedule

THEATRE 475 Rehearsal and Performance:
2-3 cr. Undergraduate.
Practical experience in the preparation, rehearsal, stage management or performance of theatrical productions.
Prerequisites: cons instr.
Course Rules: May be retaken for credit to max of 12 cr. Credit granted per production assignment.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 476 Leadership Skills for Theatre Management
3 cr. Undergraduate.
Development of management skills for organizing and running theatrical productions by understanding personal leadership styles, communication techniques, conflict resolution, and problem-solving within the artistic process.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

THEATRE 484 Field Work in Theatre
1-3 cr. Undergraduate/Graduate.
Theatre education field experiences in schools, agencies, and institutions.
Prerequisites: Theatre majors; Thr BA 473(P) or 474(P), & cons instr.
Course Rules: May be retaken to max of 3 sem.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

THEATRE 485 Elementary Level Student Teaching in Theatre
2-6 cr. Undergraduate/Graduate.
Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of Theatre faculty; weekly seminar; portfolio development.
Prerequisites: jr st & admis to Theatre teaching cert & cons instr
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule
THEATRE 486 Secondary Student Teaching in Theatre
2-6 cr. Undergraduate/Graduate.
Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of the Theatre faculty; weekly seminar; portfolio development.
Prerequisites: jr st; admis to Theatre teaching cert; Theatre 484(P) & writ cons instr.
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule

THEATRE 490 Topics in Theatre:
1-4 cr. Undergraduate/Graduate.
Various forms of theatre processes or theatrical presentation/production. Specific credits and add'l prereq's announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st; see Schedule of Classes for add'l prereq's.
Course Rules: May be retaken w/chg in topic to max of 8 cr.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

THEATRE 497 Study Abroad in Theatre
1-12 cr. Undergraduate.
Interdisciplinary and foundational exploration of world theatre through exchange programs, performance tours, or foreign cultural study.
Prerequisites: acceptance for Study Abroad Prog. Foreign language proficiency required for some programs.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

THEATRE 503 Stage Voice and Speech 3
3 cr. Undergraduate.
Vocal exploration through analysis of verse and heightened language, recorded voice work, and beginning dialects for the stage.
Prerequisites: Theatre 431(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 530 Stage Voice and Speech 4
3 cr. Undergraduate.
Advanced dialects for stage utilizing individual research and presentation of a dialect focusing on advanced voice and speech work.
Prerequisites: Theatre 530(P).
Current Offerings: http://uwm.edu/schedule

THEATRE 540 Physical Performance 3
3 cr. Undergraduate.
Development of and training in extended physical theatre techniques drawn from current performance research and text study.
Prerequisites: Theatre 441(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 541 Physical Performance 4
3 cr. Undergraduate.
Exploration of movement and acting challenges through rehearsal and performance of new play texts.
Prerequisites: Theatre 540(P).
Current Offerings: http://uwm.edu/schedule

THEATRE 542 Performance 5
3 cr. Undergraduate.
Scene work in pre-modern texts.
Prerequisites: Admis to Theatre BFA acting track, Theatre 471(P)
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 570 Acting 5
3 cr. Undergraduate.
Scene work in pre-modern texts.
Prerequisites: Admis to Theatre BFA acting track, Theatre 471(P)
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 571 Acting 6
3 cr. Undergraduate.
Contemporary Performance Techniques. Work in the development and performance of new and contemporary material through ensemble work and physical theatre techniques.
Prerequisites: Admis to Theatre BFA acting track; Theatre 570(P).
Current Offerings: http://uwm.edu/schedule

THEATRE 575 Studio
1-4 cr. Undergraduate.
Advanced practical application of all phases of production, rehearsal, and performance.
Prerequisites: Theatre 575(P) or 475(P); & cons instr.
Course Rules: May be retaken to max of 16 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 675 Advanced Studio
1-6 cr. Undergraduate.
Advanced practical application of all phases of production, rehearsal, and performance.
Prerequisites: Theatre 575(P) or 475(P); & cons instr.
Course Rules: May be retaken to max of 12 cr. Credit granted per production assignment.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 685 Internship in Professional Theatre
1-6 cr. Undergraduate/Graduate.
Engagement with a professional Theatre in individual discipline area.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 12 cr.
Current Offerings: http://uwm.edu/schedule

THEATRE 689 Independent Study-Stage Management
1-6 cr. Undergraduate.
Individualized program of supervised study in stage management. Work on productions in stage management is required.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Fall 2017, Spring 2016, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
THEATRE 690 Independent Study--Make-Up
1-6 cr. Undergraduate.
Individual program of supervised study in make-up.
Prerequisites: jr st, writ cons instr.
Course Rules: May be retaken to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

THEATRE 691 Independent Study-Acting
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study in acting.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

THEATRE 692 Independent Study-Technical Theatre, Scene Design and Lighting
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study in technical theatre, scene design, or lighting.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

THEATRE 693 Independent Study-Costumes
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study in costumes.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

THEATRE 694 Independent Study-Directing
1-4 cr. Undergraduate/Graduate.
Individual program of supervised study in directing.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Fall 2015, Fall 2013, Fall 2012, Spring 2012.
Current Offerings: http://uwm.edu/schedule

THEATRE 695 Independent Study-History, Literature, and Criticism
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study in history, literature, and criticism.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Fall 2010, Fall 2009, Spring 2008, Fall 2006.
Current Offerings: http://uwm.edu/schedule

THEATRE 696 Independent Study-Playwriting
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study in playwriting.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Fall 2017, Spring 2016, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

THEATRE 697 Independent Study-Theatre Education and Theatre for Young Audiences
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study in theatre education and children's theatre.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Fall 2016, Spring 2016, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

THEATRE 698 Independent Study-Theatre Management and Public Relations
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study in theatre management and public relations.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

THEATRE 699 Independent Study:
1-6 cr. Undergraduate/Graduate.
Individual program of supervised study in the student's area of emphasis.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anne Basting</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
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<tr>
<td>Richard H. Graham</td>
<td>Associate Professor</td>
<td>BFA</td>
<td>North Carolina School of Performing Arts</td>
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<tr>
<td>Christopher Guse</td>
<td>Associate Professor</td>
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<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Rebecca Holderness</td>
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<td>Columbia University</td>
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<td>Anthony Horne</td>
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<td>MFA</td>
<td>University of Memphis</td>
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<tr>
<td>Jeffery Lieder</td>
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<td>MFA</td>
<td>Ohio State University</td>
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<tr>
<td>Michelle Lopez-Rios</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>University of Houston</td>
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<tr>
<td>Raeleen McMillion</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>Ohio University</td>
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<tr>
<td>Robin Mello</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Lesley University</td>
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<tr>
<td>Corliss E. Philabaum</td>
<td>Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
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<tr>
<td>Alvaro Saar Rios</td>
<td>Assistant Professor</td>
<td>MFA</td>
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</table>
Arts and Social Entrepreneurship, Undergraduate Certificate

Use your skills as an artist to find sustainable solutions to our biggest social challenges - in education, the environment, or community health - among others. Understand the latest in business-based, non-profit structures; the latest in audience and community engagement; and the latest in community teaching methods. Become part of a generation of artists who are leaders in their communities as they strive to make meaningful social change.

Artists in all fields can be catalysts for community change and invaluable team members for community-based organizations or partnerships of organizations in collective action. This certificate prepares students with arts training in all disciplines (film, creative writing, visual art, theatre, music and dance) for careers in community and civic leadership at non-profits or governmental agencies.

Students will learn:

- the importance of communication and empathy across differences in culture, age, and ability;
- visual, oral and written storytelling to inspire social change;
- asset-based community development;
- partnership building;
- theories of change and leadership;
- sustainable, non-profit business models; and
- the unique role of artists in community development.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<td>Multicultural America</td>
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<td>or FILM 150</td>
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<td>or THEATRE 150</td>
<td>Multicultural America</td>
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<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
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<td>or ED POL 612</td>
<td>Community Participation and Power</td>
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<td>THEATRE 320</td>
<td>Arts and Social Entrepreneurship</td>
<td>3</td>
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<td>Capstone</td>
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Electives

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<tr>
<td>ART ED 227</td>
<td>Introduction to Art Education</td>
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<td>ART 306</td>
<td>Introduction to Community Art</td>
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<tr>
<td>BUS ADM 292</td>
<td>Introduction to Entrepreneurship and Small Business Formation</td>
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<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
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<td>BUS ADM 393</td>
<td>Business Ethics &amp; Social Responsibility</td>
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<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
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<tr>
<td>BUS ADM 492</td>
<td>Business Modeling of New Ventures</td>
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<td>DANCE 420</td>
<td>Creating Dance in the Community</td>
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<td>ED POL 609</td>
<td>Community Partnerships</td>
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<td>ENGLISH 233</td>
<td>Introduction to Creative Writing</td>
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<td>ENGLISH 234</td>
<td>Writing Fiction: Structure and Technique</td>
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<td>ENGLISH 235</td>
<td>Writing Poetry: Forms, Styles, Voices</td>
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<td>ENGLISH 236</td>
<td>Introductory Topics in Creative Writing</td>
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<td>FILM 301</td>
<td>Conversations with Filmmakers and Critics</td>
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<td>FILM 319</td>
<td>Film Genres: (Radical Film)</td>
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<td>FILM 380</td>
<td>Media Arts Module: (Documentary Project)</td>
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<td>FILM 420</td>
<td>Intermediate Media Arts Module: (Documentary Project)</td>
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<td>FILM 460</td>
<td>Advanced Media Arts Module: (Ethnographic Film)</td>
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<td>MUSIC 310</td>
<td>Introduction to World Musics</td>
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<td>PH 101</td>
<td>Introduction to Public Health</td>
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<td>PH 303</td>
<td>Climate Change, the Environment and Human Health</td>
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<tr>
<td>THEATRE 120</td>
<td>Performance and Popular Culture</td>
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<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
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<td>THEATRE 260</td>
<td>Storytelling:</td>
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<tr>
<td>THEATRE 360</td>
<td>Theatre Practices:</td>
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<tr>
<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
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<td>URBPLAN 140</td>
<td>Issues in Contemporary Urban Planning</td>
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<td>URBPLAN 141</td>
<td>Urban Planning Solutions to Contemporary Urban Problems</td>
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<td>URBPLAN 315</td>
<td>Great Cities of the World: Their Growth and Guided Urbanization</td>
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<td>URBPLAN 351</td>
<td>Planning for the Great Cities of America</td>
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<td>URBPLAN 361</td>
<td>Social Justice, Urban Planning and the</td>
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<td></td>
<td>New Multicultural America</td>
<td></td>
</tr>
</tbody>
</table>

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays
(closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.
Theatre Teaching Certification, Minor

As of Fall 2017, the Theatre Education Minor has suspended admission. This means that unless you have been accepted into this program prior to Fall 2017, you will not be able to earn the minor. The following information is provided solely for the benefit of students accepted into the program prior to Fall 2017.

The Theatre Department offers a teaching minor leading to a DPI #325 license. This program is open either as an “add-on” license for students pursuing, and accepted into, an education or teaching major in an appropriately related field (e.g., English, Social Studies, MCEA) or teachers who already have a State of Wisconsin teaching license in one of the subjects listed above.

Requirements

Admission

Admission requirements for a Theatre Education minor are the same as those of a major (see Theatre Education admission requirements). Students accepted into the program will be expected to participate in an interview, pass the Praxis I and II Tests prior to admission to the program, their fieldwork, and student teaching (THEATRE 484, THEATRE 485, and THEATRE 486). Additionally, students evaluated as lacking in theatre content information, skills, or knowledge will be required to take more than the minimum 21 credits listed here; each individual student's appropriateness, requirements, and their course(s) of study will be determined by the Theatre Education Program Director. Minimum Required Courses for Theatre Education Minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor's Process</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling:</td>
<td>3</td>
</tr>
<tr>
<td>or THEATRE 204</td>
<td>Theatre and Social Change</td>
<td></td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
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<tr>
<td>THEATRE 322</td>
<td>The Theatre: Modern and Contemporary</td>
<td>3</td>
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<td></td>
<td>Period</td>
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<td>THEATRE 410</td>
<td>Stage Directing</td>
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<tr>
<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
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<tr>
<td>or THEATRE 473</td>
<td>Theatre in Elementary Education</td>
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<td>THEATRE 474</td>
<td>Theatre in Secondary Education</td>
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<td>THEATRE 484</td>
<td>Field Work in Theatre</td>
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<td>THEATRE 485</td>
<td>Elementary Level Student Teaching in Theatre</td>
<td>2-6</td>
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<tr>
<td>THEATRE 486</td>
<td>Secondary Student Teaching in Theatre</td>
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</tbody>
</table>

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)

Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Theatre, BA

The Bachelor of Arts (BA) in Theatre supports engaged theatre practice that meets the social and cultural challenges of our twenty-first century society.

Our innovative curriculum invites students to begin by building core theatre skills, then gradually applying them to a range of projects, settings, and populations. This culminates in in-depth application of these skills through internships, community placements and a Capstone. The BA in Theatre supports a professional track for students seeking a Wisconsin Theatre Teaching license in K-12 Theatre Education. It is also the home of the A&SE Certificate Program.

The BA in Theatre engages students in focusing their study on educational and social justice theatre, devising and performing new work, storytelling, dramaturgy, directing, playwriting, and arts and social entrepreneurship. Students have an option to earn an A&SE certificate. For more information please see: uwm.edu/arts/theatre/ba/. (http://uwm.edu/arts/theatre/ba)

Requirements

The Bachelor of Arts in Theatre is a 120-credit program. BA Theatre majors are required to fulfill the department's core, maintain a 2.75 GPA in the major, and earn a C grade or better in all Theatre Core courses.

BA Theatre students execute a capstone course project as a culminating demonstration of their learning. K-12 Theatre Education students complete their capstone experience through student teaching. All capstones and student teaching are evaluated through a presentation of research and/or portfolio process. The Theatre Education track prepares students to be urban educators in Wisconsin classrooms, grades K-12. On successful completion of all degree requirements, Theatre Education students are recommended for #1325 Theatre licensure in the State of Wisconsin. For more information please see: uwm.edu/arts/theatre/theatre-education (http://uwm.edu/arts/theatre/theatre-education).

Bachelor of Arts in Theatre Curriculum

The minimum degree requirement is 120 credits. BA Theatre Degree requirements (excluding the BA Theatre Education Track) are distributed as follows:

University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>General Education Requirements</td>
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<td></td>
<td>Competencies</td>
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</table>

University of Wisconsin-Milwaukee
Oral and Written Communication – Part A and Part B
Quantitative Literacy (QL) – Part A and Part B
Foreign Language

Distribution Requirements

- Humanities: 6
- Natural Sciences (Must include one lab): 6
- Social Sciences: 6
- Cultural Diversity: 2

Electives

- Additional Electives: 12
- Credits in Peck School of the Arts: 12
- University Credits: 3

Total Credits: 45

1 Learn more about the General Education Requirements (p. )
2 Credits may be utilized in required curriculum areas.
3 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

Capstone

All programs and tracks in undergraduate programs within the Theatre Department require a capstone experience. The Theatre Capstone serves as a laboratory for students and provides a framework for application of developing skills and knowledge. Capstone evaluations are used to assess student outcomes and program goals. Depending on semester, program, or project, capstones are executed and evaluated within the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THEATRE 410</td>
<td>Stage Directing</td>
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<td>THEATRE 465</td>
<td>Theatre Capstone:</td>
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<td>THEATRE 472</td>
<td>Performance Workshop Capstone</td>
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<tr>
<td>THEATRE 475</td>
<td>Rehearsal and Performance:</td>
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<td>THEATRE 485</td>
<td>Elementary Level Student Teaching in Theatre</td>
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<td>THEATRE 486</td>
<td>Secondary Student Teaching in Theatre</td>
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BA Theatre Requirements

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<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor’s Process</td>
<td>3</td>
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<td>THEATRE 101</td>
<td>Acting for Non-majors</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
<td>3</td>
</tr>
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<td>THEATRE 260</td>
<td>Storytelling:</td>
<td>3</td>
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<tr>
<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
<td>3</td>
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<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
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<tr>
<td>THEATRE 214</td>
<td>Stagecraft (with lab)</td>
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<td>THEATRE 225</td>
<td>Costume Construction (with lab)</td>
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<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
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<td>THEATRE 275</td>
<td>Performing Arts Management</td>
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<td>THEATRE 305</td>
<td>The Theatrical Experience:</td>
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<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
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<td>THEATRE 322</td>
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BA Track Requirements and Electives

Required

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<td>THEATRE 204</td>
<td>Theatre and Social Change (if not taken previously)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling: (if not taken previously)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 320</td>
<td>Arts and Social Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 410</td>
<td>Stage Directing</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 218</td>
<td>Computer Modeling and Graphics for Live Performance</td>
<td>3</td>
</tr>
</tbody>
</table>

or THEATRE 359 | Playwriting | 3 |

Select one of the following:

- THEATRE 304 | Costume Design | 3 |
- THEATRE 318 | Scene Design | 3 |
- THEATRE 323 | Special Topics in World Theatre: | 3 |
- THEATRE 324 | Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre | 3 |
- THEATRE 325 | History of Costume | 3 |
- THEATRE 330 | Acting Topics: | 3 |
- THEATRE 357 | Digital Audio Workstations for Stage and Studio | 3 |
- THEATRE 418 | Lighting Studio | 3 |
- THEATRE 437 | Sound Design and Digital Editing | 3 |

Select one of the following:

- THEATRE 448 | How to be a Teaching Artist | 3 |
- THEATRE 473 | Theatre in Elementary Education | 3 |
- THEATRE 474 | Theatre in Secondary Education | 3 |

Select one of the following:

- THEATRE 465 | Theatre Capstone: (must take minimum of 2 credits; may repeat once) | 2-4 |
- THEATRE 472 | Performance Workshop Capstone (must take minimum of 2 credits; may repeat once) | 2-4 |

Electives

- Select 18 electives | 18 |

Select 18 electives

Total Credits: 73-75

Recommended Electives

Electives are chosen in consultation with the individual student’s departmental advisor. Students are encouraged to take upper-level courses and/or courses in BFA programs (after their degree requirements have been met, with permission from course instructors).

The following BA electives (non-required courses) are offered irregularly as electives in the major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 108</td>
<td>Introduction to Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 111</td>
<td>Theatre Games</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 202</td>
<td>Theatre Practicum</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 224</td>
<td>Make-Up</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 231</td>
<td>Introduction to Voice and Speech</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 308</td>
<td>Advanced Makeup:</td>
<td>3</td>
</tr>
</tbody>
</table>
The Theatre Education Program of study, within the BA Theatre degree program, is a 120-credit degree that prepares future urban theatre teachers for grades K-12.

Admission and Continuation Requirements

Students are typically admitted into Theatre Education in their Senior year of High School. Student may also apply to the Theatre Education program while majoring in another Theatre degree program. Students may also apply to transfer into the program from within UWM or from other higher education programs as well. Once accepted to the university, candidates apply to the program through the PSOA portal.

All Theatre Education students must maintain a 2.75 cumulative grade point average (within general University courses) and a 3.0 within the major to be in good standing and continue in the program.

All teacher candidates must take and pass the Praxis II Theatre Content Test, or pass a Portfolio equivalent (as determined by the program), and have successfully completed the Communication and Foreign Language Competencies, Oral and Written Communication (OWC) parts A and B, and Quantitative Literacy (QL) parts A and B, prior to being approved for student teaching.

BA Theatre Education Requirements

Communications Requirement: Students interested in pursuing a professional education teaching credential must take a communications course. At UWM theatre students are required to take THEATRE 260.

Human Relations Requirement: The Human Relations Requirement provides prospective teachers with awareness and understanding of intercultural relations within the educational setting. The requirement is met with coursework and service-learning opportunities. Effective July 1, 1992, and pursuant to 1987 Wisconsin Act 31, a license to teach may be granted when "the applicant has received instruction in the study of minority group relations, including instruction in the history, culture, and tribal sovereignty of American Indian tribes and bands located in this state." Currently, this requirement is met through satisfactory completion and a passing grade in one of the following courses: Ethnic 203, Hist 263, Anthro 213, or English 276 (with the special topic "Literature, History, and Sovereignty of Upper Midwest Indians"), or Wisconsin Act 31 seminar attendance. Questions regarding this requirement should be directed to the student's academic advisor.

Fieldwork and Student Teaching: A passing score on the Praxis II Theatre Content Test, clear criminal background check, and negative TB test, along with an application of intent are required prior to working in public schools and student teaching.

Teaching Portfolio: Pursuant to WI statutes and regulations, Theatre Education requires that students compile an externally reviewed teaching portfolio (EdTPA) that demonstrates teaching proficiency in their area of expertise. They also must submit an exit portfolio, administered internally by the Theatre Education program, demonstrating proficiency in WI teaching standards.

Application for WI #1325 Theatre Teacher License:

In keeping with DPI requirements, Theatre Education students must have a 2.75 cumulative grade point average within the general University and 3.0 in the major to be approved to apply for a teaching license after graduation. Following admission to Theatre Education and successful completion of the specified course of study (see below) a student seeking recommendation for teacher licensure must successfully fulfill the following:

1. Fulfill all degree requirements;
2. Fulfill the Field Experience Requirement (embedded in course work within the program);
3. Demonstrate at least a 2.75 cumulative GPA and a 3.0 within the major;
4. Pass the Praxis II Theatre Content Exam or the portfolio equivalent;
5. Successfully complete student teaching;
6. Successfully complete an EdTPA portfolio;
7. Successfully demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of theatre education through the submission of an initial-professional educator-portfolio, which is assessed by program faculty (as per DPI requirement);
8. Pass all teacher evaluations/tests required by the State of Wisconsin.

The following coursework is required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 103</td>
<td>Public Speaking</td>
<td></td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>or CURRINS 343</td>
<td>Teaching of Reading</td>
<td></td>
</tr>
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</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
</tr>
</tbody>
</table>
Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor's Process</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 101</td>
<td>Acting for Non-majors</td>
<td></td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
<td></td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling:</td>
<td></td>
</tr>
<tr>
<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 214</td>
<td>Stagecraft (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 225</td>
<td>Costume Construction (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 275</td>
<td>Performing Arts Management</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience:</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 322</td>
<td>The Theatre: Modern and Contemporary Period</td>
<td>3</td>
</tr>
</tbody>
</table>

Theatre Education Track Requirements and Electives

**Required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change (if not taken previously)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling: (if not taken previously)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 320</td>
<td>Arts and Social Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 410</td>
<td>Stage Directing</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 218</td>
<td>Computer Modeling and Graphics for Live Performance</td>
<td>3</td>
</tr>
<tr>
<td>or THEATRE 359</td>
<td>Playwriting</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currins 664</td>
<td>Dramatizing Literature in Elementary Classrooms</td>
<td>6</td>
</tr>
<tr>
<td>THEATRE 473</td>
<td>Theatre in Elementary Education</td>
<td></td>
</tr>
<tr>
<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
<td></td>
</tr>
<tr>
<td>THEATRE 474</td>
<td>Theatre in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 484</td>
<td>Field Work in Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 485</td>
<td>Elementary Level Student Teaching in Theatre</td>
<td>6</td>
</tr>
<tr>
<td>THEATRE 486</td>
<td>Secondary Student Teaching in Theatre</td>
<td>6</td>
</tr>
</tbody>
</table>

**Electives**

Select 4 credits of electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 111</td>
<td>Theatre Games</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 202</td>
<td>Theatre Practicum</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 224</td>
<td>Make-Up</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 231</td>
<td>Introduction to Voice and Speech</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 304</td>
<td>Costume Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 311</td>
<td>Advanced Improvisation</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 318</td>
<td>Scene Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 323</td>
<td>Special Topics in World Theatre:</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 75

1 Can be completed as part of the University Core.

**BA Theatre Education Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 111</td>
<td>Theatre Games</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 202</td>
<td>Theatre Practicum</td>
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<tr>
<td>THEATRE 224</td>
<td>Make-Up</td>
<td>3</td>
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<tr>
<td>THEATRE 231</td>
<td>Introduction to Voice and Speech</td>
<td>3</td>
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<tr>
<td>THEATRE 304</td>
<td>Costume Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 311</td>
<td>Advanced Improvisation</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 318</td>
<td>Scene Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 323</td>
<td>Special Topics in World Theatre:</td>
<td>3</td>
</tr>
</tbody>
</table>

THEATRE 324 Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre 3

THEATRE 325 History of Costume 3

THEATRE 330 Acting Topics: 3

THEATRE 339 Stage Combat 3

THEATRE 357 Digital Audio Workstations for Stage and Studio 3

THEATRE 418 Lighting Studio 3

THEATRE 432 Advanced Theatre Practicum 2

THEATRE 437 Sound Design and Digital Editing 3

THEATRE 465 Theatre Capstone: 3

THEATRE 472 Performance Workshop Capstone 2

**BA Theatre: Example of Required Courses in 4-Year Plan**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td>General Education Requirements</td>
<td>9</td>
</tr>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor's Process</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

| Year 2     | Spring                               |         |
| University Core | General Education Requirements     | 9       |
| THEATRE 230 | Acting 2: Text and Performance       | 3       |
| THEATRE 275 | Performing Arts Management           | 3       |
| Credits    |                                      | 15      |

| Year 3     | Fall                                 |         |
| PSOA Core | Required Electives                   | 6       |
| THEATRE 218 | Computer Modeling and Graphics for Live Performance | 3 |
| or THEATRE 359 | Playwriting                      |         |
| THEATRE 321 | The Theatre: Beginnings Through Realism | 3   |
| THEATRE 448 | How to be a Teaching Artist          | 3       |
| or THEATRE 475 | Rehearsal and Performance:     |         |
| Credits    |                                      | 15      |

| Year 4     | Spring                               |         |
| THEATRE 320 | Arts and Social Entrepreneurship     | 3       |
| THEATRE 322 | The Theatre: Modern and Contemporary Period | 3 |
| PSOA Core | Required Elective                   | 3       |
| BA Degree Elective | Elective                        | 3       |
| University Core | General Elective                  | 3       |
| Credits    |                                      | 15      |
Theatre Education: Example of Required Courses in 4-Year Plan

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>General Education Requirements</td>
</tr>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor’s Process</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
</tr>
<tr>
<td>THEATRE 260</td>
</tr>
<tr>
<td>COMMUN 103</td>
</tr>
<tr>
<td>or COMMUN 105</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>Required Elective</td>
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<tr>
<td>THEATRE 225</td>
<td>Costume Construction</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
</tr>
<tr>
<td>PSOA Core</td>
<td>Required Elective</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSOA Core</td>
</tr>
<tr>
<td>THEATRE 230</td>
</tr>
<tr>
<td>THEATRE 214</td>
</tr>
<tr>
<td>THEATRE 275</td>
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<table>
<thead>
<tr>
<th>Year 3</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSOA Core</td>
<td>Required Elective</td>
</tr>
<tr>
<td><strong>Select one of the following:</strong></td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
</tr>
<tr>
<td>THEATRE 473</td>
<td>Theatre in Elementary Education</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
</tr>
<tr>
<td>BA Elective</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>THEATRE 320</td>
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<tr>
<td>THEATRE 322</td>
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<tr>
<td>THEATRE 347</td>
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<tr>
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<tr>
<th>Year 4</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 448</td>
<td>How to be a Teaching Artist</td>
</tr>
<tr>
<td>THEATRE 484</td>
<td>Field Work in Theatre</td>
</tr>
<tr>
<td>THEATRE 410</td>
<td>Stage Directing</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
</tr>
<tr>
<td>or CURRINS 343</td>
<td>Teaching of Reading</td>
</tr>
<tr>
<td>BA Elective</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
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<table>
<thead>
<tr>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>THEATRE 485</td>
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<tr>
<td>THEATRE 486</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
</tr>
</tbody>
</table>

**Advance to Major/Retention**

To be accepted into any of the Theatre Programs, students must meet or exceed all general university requirements. BFA applicants and BA Theatre Education applicants must either Audition or Interview with the Department in addition. Complete details are on the PSOA portal. To continue in good standing as a Theatre Major, students must meet or exceed all University requirements and maintain a 2.5 GPA overall (with the exception of Theatre Education majors who must maintain a 2.75 GPA overall). BA degree majors must then maintain a 2.75 GPA within the major, with the exception of Theatre Education majors, who must maintain a 3.0 in their major. All BFA Theatre majors must also maintain a 3.0 in the major.

Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students may be put on probation or be denied continuation in their program if they receive a D grade or lower in any Theatre Core course.

As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test, or the Portfolio equivalent as determined by Theatre Education Program, before being allowed to engage in their student teaching fieldwork.
Continuation
Students who are in danger of being dropped or put on probation will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee, which consists of three full-time, tenure track, indefinite status, or tenured theatre faculty; a faculty member of the student’s own choosing, and the Theatre Department Chair. In addition, a Peck School of the Arts Student Services Advisor will be present at the appeals committee meeting as a non-voting member. Appeals committee findings will be given to the student in writing and in a timely manner.

Location: Theatre 120
Hours: 9AM-4PM Monday through Thursday, 9AM-2PM Fridays (closed on university holidays)
Contact: (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

Honors in the Major
Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Theatre, BFA: Performance
The Bachelor of Fine Arts (BFA) in Theatre provides intensive specialized coursework for students seeking professional training in one of two separate tracks:

- Performance
  - The Performance BFA has two 130-credit tracks in either Acting or Musical Theatre.
- Production
  - The Production BFA is a singular 120-credit track embracing all the areas of production including design, costume, prop, scenery, lighting, sound, and stage management.

The BFA focuses on uncovering the potential of the individual student in the development of personal performance and/or production practices. The BFA curriculum supports student exploration of theatrical processes including new works as well as the established canon of dramatic literature. The program approaches the work in fresh and innovative ways, giving students a wide range of tools to speak to the contemporary moment both as actors on stage and as artists in production studios, rehearsal halls, and backstage.

The specialized tracks in the BFA build on the objectives of the department’s core curriculum to nurture within each student a deepened, strengthened, and developing professional level of competency. Each track of specialization follows an integrated curriculum based on an intensive, specialized array of courses. These focused arcs of training endow students with a sense of their own identity as artists. Students must continue to show artistic growth and progress and meet academic grade requirements (see Requirements tab) to continue in the program. Admission to each BFA track is selective and progress reviews are conducted each semester allowing for direct feedback to the student and a chance to explore changing interests or career paths.

- BFA Acting: The program builds on the objectives of the department’s core curriculum to develop within the student a deepened, strengthened, and professional level of competency in acting and a sense of identity as a performing artist. It prepares students for advanced graduate study in performance or entry into the profession of theatre practice. To help students develop as complete artists, our program emphasizes an understanding of essential acting theories, principles of voice production, flexible speech techniques, physical communication, physical structures of character, principles of Dramatic Action and Storytelling, and personal artistic practice. Research specific to an actor’s work, objective and subjective/affective, is demonstrated as a core principle to artistic development. Students are guided through the process of self critique to gain the ability to prescribe solutions and/or new directions for artistic development, and gain an understanding of professional modes of behavior, preparation, and competency.
• **BFA Musical Theatre:** Combining three major performing disciplines, Music, Dance, and Theatre, this program trains students to succeed as versatile performing artists. Our students annually perform in carefully chosen musical productions essential to pre-professional training, and hone a range of practical and creative skills consistent with their professional and personal goals. Students will be trained thoroughly in the performance skills necessary to compete in the professional world of musical theatre. Included in this track are a solid developmental and pedagogical foundation in music (voice, theory and musicianship, piano, large and small music ensembles), dance (history of the musical theatre art form, ballet, tap, jazz, and theatre dance), and theatre (acting, play analysis, and theatre production).

• **BFA Production:** Our multi-faceted Theatre Production program trains students to be competitive in a variety of fields, including technical production, stage management and design, costume production, and more. Offering professional training experiences as early as Freshman year, our students go on to work in a variety of related industry careers. The Production BFA utilizes the foundation of theatre to explore the uniquely collaborative artistic and artisanal processes that create and support compelling storytelling in live performance. The program allows for specialization in the areas of costumes, lighting, properties, scenery, sound/video and stage management but is flexible enough for cross disciplinary studies tailored to the student’s specific interests.

### Requirements

#### University Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong> 1</td>
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<tr>
<td></td>
<td>Competencies 1</td>
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<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B 2</td>
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<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B 2</td>
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<td></td>
<td>Foreign Language 2</td>
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<td></td>
<td><strong>Distribution Requirements</strong> 1</td>
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<tr>
<td></td>
<td>Humanities 6</td>
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</tr>
<tr>
<td></td>
<td>Natural Sciences (Must include one lab) 6</td>
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<td></td>
<td>Social Sciences 6</td>
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<tr>
<td></td>
<td>Cultural Diversity 2</td>
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<td></td>
<td><strong>Electives</strong></td>
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<tr>
<td></td>
<td>Additional Electives 12</td>
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<td></td>
<td>Credits in Peck School of the Arts 3</td>
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<td>University Credits 3</td>
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<td><strong>Total Credits</strong></td>
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</table>

1. Learn more about the General Education Requirements (p.   ).
2. Credits may be utilized in required curriculum areas.
3. 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

### Capstone

All programs and tracks in undergraduate programs within the Theatre Department require a capstone experience. The Theatre Capstone serves as a laboratory for students and provides a framework for application of developing skills and knowledge. Capstone evaluations are used to assess student outcomes and program goals.

Capstones are executed and evaluated within the following courses:

**BFA Acting Degree**

THEATRE 571

**BFA Musical Theatre Degree**

THEATRE 472

### Acting Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td><strong>Theatre Department Core</strong></td>
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<td>Select one of the following:</td>
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<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor’s Process</td>
<td></td>
</tr>
<tr>
<td>THEATRE 101</td>
<td>Acting for Non-majors</td>
<td></td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
<td></td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling</td>
<td></td>
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<tr>
<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 214</td>
<td>Stagecraft (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 225</td>
<td>Costume Construction (with lab)</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 275</td>
<td>Performing Arts Management</td>
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<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience:</td>
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<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
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<td>THEATRE 322</td>
<td>The Theatre: Modern and Contemporary Period</td>
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**BFA Acting Track Requirements and Electives**

**Required**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>THEATRE 430</td>
<td>Stage Voice and Speech 1</td>
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<td>THEATRE 431</td>
<td>Stage Voice and Speech 2</td>
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<td>THEATRE 440</td>
<td>Physical Performance 1</td>
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<tr>
<td>THEATRE 441</td>
<td>Physical Performance 2</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 463</td>
<td>Master Class in Professional Theatre Study</td>
<td>1</td>
</tr>
<tr>
<td>THEATRE 470</td>
<td>Acting Technique 3</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 471</td>
<td>Acting Technique 4</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 475</td>
<td>Rehearsal and Performance: (2-3 cr as assigned; repeatable)</td>
<td>6</td>
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<tr>
<td>THEATRE 530</td>
<td>Stage Voice and Speech 3</td>
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<td>THEATRE 531</td>
<td>Stage Voice and Speech 4</td>
<td>3</td>
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<td>THEATRE 540</td>
<td>Physical Performance 3</td>
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<td>THEATRE 541</td>
<td>Physical Performance 4</td>
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<td>THEATRE 570</td>
<td>Acting 5</td>
<td>3</td>
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<tr>
<td>THEATRE 571</td>
<td>Acting 6</td>
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</table>

**Electives**

Select electives as discussed with advisor 10

**Total Credits** 85
Musical Theatre Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>Peck School of the Arts Credits for Musical Theatre BFA Track 1</td>
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<tr>
<td>MUSIC 244</td>
<td>Basic Diction in Singing</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater</td>
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<tr>
<td>Choral Ensemble</td>
<td>Select 1 credit/semester; 2 semesters</td>
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<tr>
<td>Art or Film Course</td>
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<td>Elective in any area in PSOA</td>
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<tr>
<td>General Elective</td>
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Theatre Department Core

<table>
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<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor’s Process</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
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<tr>
<td>THEATRE 230</td>
<td>Acting 2: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
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</table>

Select one of the following: 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 214</td>
<td>Stagecraft (with lab)</td>
<td></td>
</tr>
<tr>
<td>THEATRE 225</td>
<td>Costume Construction (with lab)</td>
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</table>

BFA Musical Theatre Track Requirements and Electives

Required

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSIC 101</td>
<td>Fundamentals of Music</td>
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</table>

Select one of the following for 2 semesters: 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
<td>1</td>
</tr>
<tr>
<td>or MUSPERF 101</td>
<td>Lessons in Piano:</td>
<td></td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 142</td>
<td>Class Voice for Musical Theater Level I</td>
<td></td>
</tr>
<tr>
<td>MUSIC 143</td>
<td>Class Voice for Music Theatre Level II</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 111</td>
<td>Lessons in Voice: (enroll in and complete 2 semesters)</td>
<td></td>
</tr>
<tr>
<td>MUSPERF 311</td>
<td>Lessons in Voice: (enroll in and complete 2 credits/4 semesters)</td>
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Select 2 credits/semester for 3 semesters from the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 211</td>
<td>Contemporary Dance Practice: Ballet Tradition III</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 212</td>
<td>Contemporary Dance Practice: Ballet Tradition IV</td>
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</tr>
<tr>
<td>DANCE 311</td>
<td>Contemporary Dance Practice: Ballet Tradition V</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 312</td>
<td>Contemporary Dance Practice: Ballet Tradition VI</td>
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</table>

Select 2 credits/semester for 3 semesters from the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 115</td>
<td>Jazz Dance I</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 116</td>
<td>Jazz Dance II</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 310</td>
<td>Jazz III</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 117</td>
<td>Tap I</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 327</td>
<td>Dance for the Musical Theatre</td>
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<tr>
<td>DANCE 427</td>
<td>Dance for the Musical Theatre</td>
<td>1</td>
</tr>
<tr>
<td>THEATRE 231</td>
<td>Introduction to Voice and Speech</td>
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</table>

Acting: Example of Required Courses in 4-Year Plan

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>THEATRE 408</td>
<td>Acting in Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 470</td>
<td>Acting Technique 3</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 471</td>
<td>Acting Technique 4</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 472</td>
<td>Performance Workshop Capstone</td>
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Select 6 credits from the following (Variable credit as assigned/cast): 6

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 457</td>
<td>Opera Theatre (repeatable)</td>
<td>1</td>
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<tr>
<td>THEATRE 475</td>
<td>Rehearsal and Performance: (repeatable)</td>
<td>1</td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble (repeatable)</td>
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Electives

Select electives in music, theatre, or dance as discussed with advisor 7

Total Credits 84

1 Can be completed as part of the University Core.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Course</strong></td>
<td><strong>Title</strong></td>
<td><strong>Credits</strong></td>
</tr>
<tr>
<td><strong>Year 1</strong></td>
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</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 111</td>
<td>Ballet I</td>
<td>2</td>
</tr>
<tr>
<td>or DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td></td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 143</td>
<td>Class Voice for Music Theatre Level II</td>
<td>2</td>
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<tr>
<td>MUSIC XXX</td>
<td>Choral Ensemble</td>
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</tr>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
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<tr>
<td>or MUSPERF 101</td>
<td>or Lessons in Piano:</td>
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<tr>
<td>THEATRE 214 or THEATRE 225</td>
<td>Stagecraft or Costume Construction</td>
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<td>University Core</td>
<td>General University Requirement</td>
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<td><strong>Spring</strong></td>
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<td>DANCE 111</td>
<td>Ballet I</td>
<td>2</td>
</tr>
<tr>
<td>or DANCE 112</td>
<td>Contemporary Dance Practice: Ballet Tradition II</td>
<td></td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 143</td>
<td>Class Voice for Music Theatre Level II</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Choral Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSPERF 1</td>
<td>Fundamentals of Piano:</td>
<td>1</td>
</tr>
<tr>
<td>or MUSPERF 101</td>
<td>or Lessons in Piano:</td>
<td></td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
<td>3</td>
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<tr>
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<td>General University Requirement</td>
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<td>University Core</td>
<td>General University Requirement</td>
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<tr>
<td><strong>Fall</strong></td>
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</tr>
<tr>
<td>DANCE 111 or DANCE 112</td>
<td>Ballet I or Contemporary Dance Practice: Ballet Tradition II</td>
<td>2</td>
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<tr>
<td>MUSPERF 111</td>
<td>Lessons in Voice:</td>
<td>1</td>
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<tr>
<td>MUSIC 244</td>
<td>Basic Diction in Singing</td>
<td>1</td>
</tr>
<tr>
<td>THEATRE 110</td>
<td>Fundamentals of the Actor’s Process</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 321</td>
<td>The Theatre: Beginnings Through Realism</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td>General University Requirement</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 115 or DANCE 116</td>
<td>Jazz Dance I or Jazz Dance II</td>
<td>2</td>
</tr>
<tr>
<td>MUSPERF 111</td>
<td>Lessons in Voice:</td>
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</tr>
<tr>
<td>THEATRE 236</td>
<td>Acting 2: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>THEATRE 475</td>
<td>Rehearsal and Performance:</td>
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</tr>
<tr>
<td>MUSIC 457</td>
<td>Opera Theatre</td>
<td></td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
<td></td>
</tr>
<tr>
<td>University Core</td>
<td>General University Requirement</td>
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</tr>
<tr>
<td>University Core</td>
<td>General University Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>(Outside of PSOA)</td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theater (OWC-B required course)</td>
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<tr>
<td>DANCE 115 or DANCE 116</td>
<td>Jazz Dance I or Jazz Dance II</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 117</td>
<td>Tap I</td>
<td>2</td>
</tr>
<tr>
<td>MUSPERF 311</td>
<td>Lessons in Voice:</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 231</td>
<td>Introduction to Voice and Speech</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 470</td>
<td>Acting Technique 3</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>(Related Elective)</td>
<td>2</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANCE 115 or DANCE 116</td>
<td>Jazz Dance I or Jazz Dance II</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 471</td>
<td>Acting Technique 4</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>THEATRE 475</td>
<td>Rehearsal and Performance:</td>
<td></td>
</tr>
<tr>
<td>MUSIC 457</td>
<td>Opera Theatre</td>
<td></td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
<td></td>
</tr>
<tr>
<td>PSOA Elective</td>
<td>Art or Film Course</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>(Outside of PSOA)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>(Related Elective)</td>
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<tr>
<td><strong>Year 4</strong></td>
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<td><strong>Fall</strong></td>
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<tr>
<td>DANCE 327</td>
<td>Dance for the Musical Theatre I</td>
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</tr>
<tr>
<td>MUSPERF 311</td>
<td>Lessons in Voice:</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 408</td>
<td>Acting in Musical Theatre</td>
<td>3</td>
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<tr>
<td>THEATRE 472</td>
<td>Performance Workshop Capstone</td>
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<td>PSOA Elective</td>
<td>Any PSOA Elective</td>
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<td>Elective</td>
<td>(Outside of PSOA)</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>DANCE 427</td>
<td>Dance for the Musical Theatre II</td>
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<tr>
<td>MUSPERF 311</td>
<td>Lessons in Voice:</td>
<td>2</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEATRE 475</td>
<td>Rehearsal and Performance:</td>
<td></td>
</tr>
<tr>
<td>MUSIC 457</td>
<td>Opera Theatre</td>
<td></td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>(Outside of PSOA)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>(General Elective)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>(Related Elective)</td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
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<td></td>
</tr>
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</table>
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To be accepted into any of the Theatre Programs, students must meet or exceed all general university requirements. BFA applicants and BA Theatre Education applicants must either Audition or Interview with the Department in addition. Complete details are on the PSOA portal. To continue in good standing as a Theatre Major, students must meet or exceed all University requirements and maintain a 2.5 GPA overall (with the exception of Theatre Education majors who must maintain a 2.75 GPA overall). BA degree majors must then maintain a 2.75 GPA within the major, with the exception of Theatre Education majors, who must maintain a 3.0 in their major. All BFA Theatre majors must also maintain a 3.0 in the major.

Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students may be put on probation or be denied continuation in their program if they receive a D grade or lower in any Theatre Core course.

As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test, or the Portfolio equivalent as determined by Theatre Education Program, before being allowed to engage in their student teaching fieldwork.

Continuation

Students who are in danger of being dropped or put on probation will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee, which consists of three full-time, tenure track, indefinite status, or tenured theatre faculty; a faculty member of the student's own choosing, and the Theatre Department Chair. In addition, a Peck School of the Arts Student Services Advisor will be present at the appeals committee meeting as a non-voting member. Appeals committee findings will be given to the student in writing and in a timely manner.

Application Process

The Theatre BFA is in compliance with all general requirements for undergraduate degrees including the general education, continuation, and laptop program requirements. Admission to each BFA track is based on an audition (Acting, Musical Theatre) or interview (Production). Prospective students are encouraged to pre-audition or pre-apply to the Theatre BFA programs during their senior year of high school. Accepted students will gain full admission to their BFA Program on successful completion of their GER core competency requirements. For more information on the application process and to apply online go to: uwm.edu/arts/theatre/ (http://uwm.edu/arts/theatre)

Application to the BFA is encouraged following successful completion of the first-year (Freshman) Theatre Core sequence (see suggested schedule on Plan of Study tab).

BFA program applicants must submit the following:

1. A separate application form; New (http://uwm.edu/arts/apply)
2. A statement of purpose;
3. A current resume;
4. Copies of high school or appropriate college transcripts (for transfer students). [Unofficial copies are acceptable for departmental purposes.];
5. Two confidential letters of recommendation, preferably from instructors familiar with the student's artistic and/or academic abilities. Letters should be submitted in signed and sealed envelopes or sent electronically directly from the recommender and will remain confidential and the property of UWM; and
6. Acting and Musical Theatre candidates should submit a headshot or other suitable photo.

Freshman and transfer applicants must additionally complete the UWM admission process, be accepted into the university, and send separate copies of transcripts and letters of recommendations directly to the department.

All materials may be submitted to the department electronically.

Following review of applications, all candidates will be contacted for interviews or, for Acting and Musical Theatre candidates, participate in an entrance audition. In the Production interview, candidates will have an opportunity to present representative samples of their work/experience in theatre or related skill areas and to chat with the faculty about their goals. The interview allows time to talk about the Production curriculum and to explore the specific interests of the candidate. Based on this interview, faculty can craft and advise an individualized and challenging arc of training from the many production classes in scenery, lights, sound, props, costumes, and stage management, as well as opening the entire PSOA class offerings to explore the connections between theatre and all the arts.

Acceptance into the BFA in Musical Theatre requires a successful audition and application packet prior to beginning in the theatre major, either as an incoming freshman or transfer student. Acceptance into the BFA in Acting requires a successful audition and application that may be made either prior to entering the major as an incoming freshman or transfer student or at the completion of the first year (freshman) Theatre Core sequence.

Additional Musical Theatre Entrance Requirements

Some required courses of the Musical Theatre Track have placement-level testing. As part of the Musical Theatre entrance audition, students take Piano and Theory Placement Exams to determine in which level of piano and music theory to enroll.

- **Piano:** Depending on audition results, a student may be required to enroll in MUSPERF 1 for two semesters. Proficiency for these courses requires a passing grade of B or better. If piano proficiency can be demonstrated through the Piano Placement Exam, then two semesters of piano lessons at the MUSPERF 101 level are required.
- **Theory:** Depending on exam results, a student may be required to enroll in MUSIC 101, or test into MUSIC 123 with 3 additional credits available toward electives. Proficiency for these courses requires a passing grade of C or better.

End-of-Semester Review Process

BFA Theatre faculty will assess students' academic and artistic growth through individual conferences at the end of each semester.
Student Evaluation
All BFA Theatre majors who do not demonstrate a consistent level of artistic and academic improvement, have and maintain a 2.5 GPA overall, and maintain at least a 3.0 GPA in their program may not advance, may be placed on probation, and/or dropped from the program.

 Appeal Process
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 Location: Theatre 120
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 Contact: (414) 229-4763

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 Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, academic policies and procedures, etc.

 For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

 Honors in the Major
Honors and High Honors in the Major are granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

 Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

 Dean’s Honors are granted to students with major achievements in one or more of the arts.

 Honors in the Peck School of the Arts
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

 Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

 Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

 Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

 Theatre, BFA: Production
The Bachelor of Fine Arts (BFA) in Theatre provides intensive specialized coursework for students seeking professional training in one of two separate tracks:

 • Performance
  - The Performance BFA has two 130-credit tracks in either Acting or Musical Theatre.

 • Production
  - The Production BFA is a singular 120-credit track embracing all the areas of production including design, costume, prop, scenery, lighting, sound, and stage management.

 The BFA focuses on uncovering the potential of the individual student in the development of personal performance and/or production practices.

 The BFA curriculum supports student exploration of theatrical processes including new works as well as the established canon of dramatic literature.

 The program approaches the work in fresh and innovative ways, giving students a wide range of tools to speak to the contemporary moment both as actors on stage and as artists in production studios, rehearsal halls, and backstage.

 The specialized tracks in the BFA build on the objectives of the department’s core curriculum to nurture within each student a deepened, strengthened, and developing professional level of competency. Each track of specialization follows an integrated curriculum based on an intensive, specialized array of courses. These focused arcs of training endow students with a sense of their own identity as artists.

 Students must continue to show artistic growth and progress and meet academic grade requirements (see Requirements tab) to continue in the program.

 Admission to each BFA track is selective and progress reviews are conducted each semester allowing for direct feedback to the student and a chance to explore changing interests or career paths.

 • BFA Acting: The program builds on the objectives of the department’s core curriculum to develop within the student a deepened, strengthened, and professional level of competency in acting and a sense of identity as a performing artist. It prepares students for advanced graduate study in performance or entry into the profession of theatre practice.

 To help students develop as complete artists, our program emphasizes an understanding of essential acting theories, principles of voice production, flexible speech techniques, physical communication, physical structures of character, principles of Dramatic Action and Storytelling, and personal artistic practice.

 Research specific to an actor’s work, objective and subjective/affective, is demonstrated as a core principle to artistic development. Students are guided through the process of self critique to gain the ability to prescribe solutions and/or new directions for artistic development, and gain an understanding of professional modes of behavior, preparation, and competency.
Theatre, BFA: Production

• **BFA Musical Theatre**: Combining three major performing disciplines, Music, Dance, and Theatre, this program trains students to succeed as versatile performing artists. Our students annually perform in carefully chosen musical productions essential to pre-professional training, and hone a range of practical and creative skills consistent with their professional and personal goals. Students will be trained thoroughly in the performance skills necessary to compete in the professional world of musical theatre. Included in this track are a solid developmental and pedagogical foundation in music (voice, theory and musicianship, piano, large and small music ensembles), dance (history of the musical theatre art form, ballet, tap, jazz, and theatre dance), and theatre (acting, play analysis, and theatre production).

• **BFA Production**: Our multi-faceted Theatre Production program trains students to be competitive in a variety of fields, including technical production, stage management and design, costume production, and more. Offering professional training experiences as early as Freshman year, our students go on to work in a variety of related industry careers. The Production BFA utilizes the foundation of theatre to explore the uniquely collaborative artistic and artisanal processes that create and support compelling storytelling in live performance. The program allows for specialization in the areas of costumes, lighting, properties, scenery, sound/video and stage management but is flexible enough for cross disciplinary studies tailored to the student’s specific interests.

**Requirements**

**University Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
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<tr>
<td></td>
<td>Competencies</td>
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<tr>
<td></td>
<td>Oral and Written Communication – Part A and Part B</td>
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<tr>
<td></td>
<td>Quantitative Literacy (QL) – Part A and Part B</td>
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<td></td>
<td>Foreign Language</td>
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<td><strong>Distribution Requirements</strong></td>
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<tr>
<td></td>
<td>Humanities</td>
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<td></td>
<td>Natural Sciences (Must include one lab)</td>
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<tr>
<td></td>
<td>Social Sciences</td>
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<td></td>
<td>Cultural Diversity</td>
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<td>45</td>
</tr>
</tbody>
</table>

1 Learn more about the General Education Requirements (p. ).

2 Credits may be utilized in required curriculum areas.

3 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

**Theatre Department Core**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<td><strong>Select one of the following:</strong></td>
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<td></td>
<td>THEATRE 110 Fundamentals of the Actor's Process</td>
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<tr>
<td></td>
<td>THEATRE 101 Acting for Non-majors</td>
<td></td>
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<tr>
<td></td>
<td>THEATRE 204 Theatre and Social Change</td>
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</tr>
<tr>
<td></td>
<td>THEATRE 260 Storytelling:</td>
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<tr>
<td></td>
<td>THEATRE 230 Acting 2: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 213 Play Analysis</td>
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</tr>
<tr>
<td></td>
<td>THEATRE 214 Stagecraft (with lab)</td>
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</tr>
<tr>
<td></td>
<td>THEATRE 225 Costume Construction (with lab)</td>
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</tr>
<tr>
<td></td>
<td>THEATRE 236 Theatre Production and Design</td>
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<tr>
<td></td>
<td>THEATRE 275 Performing Arts Management</td>
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</tr>
<tr>
<td></td>
<td>THEATRE 305 The Theatrical Experience:</td>
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<td></td>
<td>THEATRE 321 The Theatre: Beginnings Through Realism</td>
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<td>THEATRE 322 The Theatre: Modern and Contemporary Period</td>
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**BFA Production Track Requirements and Electives**

**Required**

<table>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
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<td>THEATRE 412 Career Preparation and Development</td>
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<td><strong>Select one of the following:</strong></td>
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<td>THEATRE 575 Studio (4 credit per semester, repeatable)</td>
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<tr>
<td></td>
<td>THEATRE 475 Rehearsal and Performance: (variable credit by assignment)</td>
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<td><strong>Select one of the following:</strong></td>
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<tr>
<td></td>
<td>THEATRE 675 Advanced Studio (repeatable)</td>
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<tr>
<td></td>
<td>THEATRE 685 Internship in Professional Theatre</td>
<td>(variable credit)</td>
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</table>

**Electives**

Select 29 elective credits

**Total Credits** 75

**Electives**

Select from within the Production Curriculum, outside the Production Curriculum, or any other courses in PSOA in consultation with your advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Within the Production Curriculum</strong></td>
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<tr>
<td></td>
<td>THEATRE 215 Properties Production</td>
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<td></td>
<td>THEATRE 218 Computer Modeling and Graphics for Live Performance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THEATRE 224 Make-Up</td>
<td>3</td>
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</tbody>
</table>
THEATRE 285  Costume Construction 2  3
THEATRE 301  Theatrical Millinery  3
THEATRE 304  Costume Design  3
THEATRE 314  Special Effects for Stage Scenery  3
THEATRE 315  Advanced Properties Production  3
THEATRE 318  Scene Design  3
THEATRE 319  Scenic Painting  3
THEATRE 325  History of Costume  3
THEATRE 327  The Digital Theatre - Pocket Tech  3
THEATRE 337  Sound Production and Digital Editing for Stage and Studio  3
THEATRE 338  Lighting Production  3
THEATRE 343  Patternmaking and Draping  3
THEATRE 380  Stage Management  3
THEATRE 418  Lighting Studio  3
THEATRE 432  Advanced Theatre Practicum  3
THEATRE 435  Production Management  3
THEATRE 437  Sound Design and Digital Editing  3
THEATRE 480  Leadership Skills for Theatre Management  3
THEATRE 675  Advanced Studio (repeat to 12 cr.)  1-6
THEATRE 689  Independent Study-Stage Management  1-4
THEATRE 692  Independent Study-Technical Theatre, Scene Design and Lighting  1-4
THEATRE 693  Independent Study-Costumes  1-4
THEATRE 698  Independent Study-Theatre Management and Public Relations  1-4
THEATRE 699  Independent Study  1-4

Outside the Production Curriculum
THEATRE 231  Introduction to Voice and Speech  3
THEATRE 407  Contemporary Theatre Performance:  1-3
THEATRE 410  Stage Directing  3
THEATRE 497  Study Abroad in Theatre  1-12

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Theatre, Minor

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Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Theatre, Minor
The Theatre Minor study supports active learning thorough participation in theatre processes and practices. The Theatre Minor also focuses on creativity and communication skills within the dramatic and theatrical arts. It is extremely relevant to other areas of academic study across the University.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following theatre-literacy courses:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>THEATRE 100</td>
<td>Introduction to the Theatre</td>
<td></td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td></td>
</tr>
<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience</td>
<td></td>
</tr>
<tr>
<td>Select one of the following production/management courses:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Theatre Production and Design</td>
<td></td>
</tr>
<tr>
<td>or THEATRE 275</td>
<td>Performing Arts Management</td>
<td></td>
</tr>
<tr>
<td>Select one of the following performance courses:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>THEATRE 101</td>
<td>Acting for Non-majors</td>
<td></td>
</tr>
<tr>
<td>THEATRE 111</td>
<td>Theatre Games</td>
<td></td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Theatre and Social Change</td>
<td></td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Select 9 Theatre elective credits ¹</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

¹ Students are required to take at least 6 credits at the 300 level or above. Students should work with their Theatre advisor to choose which courses meet individual interests and needs.

Theatre Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 100</td>
<td>Introduction to the Theatre (if not already taken)</td>
<td>3</td>
</tr>
</tbody>
</table>
1 Minor cannot include both THEATRE 101 and THEATRE 110.

**Contact:** (414) 229-4763

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional academic advising in the following undergraduate disciplines: art, dance, film, music, and theatre.

Advisors provide students with individualized advising to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, etc.

For more information on Peck School of the Arts advising, please visit http://uwm.edu/arts/advising/.

**Location:** Theatre 120

**Hours:** 9AM-4PM Monday through Thursday, 9AM-2PM Fridays

*(closed on university holidays)*
BUSINESS (SHELDON B. LUBAR SCHOOL OF)

The UWM Sheldon B. Lubar School of Business is a major metropolitan business school committed to academic excellence. Because of its metropolitan location, the School offers several advantages. Milwaukee-area firms provide an exciting, real-world laboratory for students to gain valuable insights and skills in their chosen professional fields as well as providing part-time or full-time employment opportunities. Students can also gain practical work experience by participating in internship programs. Business leaders from the community participate in School activities, both in the classroom and on the School’s advisory council.

High-quality management education that incorporates state-of-the-art technology is delivered to a diverse group of graduate and undergraduate students and practicing executives and professionals. We address the professional development and lifelong learning needs of individuals.

Through scholarly research, we advance knowledge pertaining to management decision making and practice and further enrich our teaching effectiveness.

Our undergraduate degree programs provide students with a career foundation leading to managerial advancement and/or entrepreneurial careers.

Our master’s degree programs prepare students to assume general management or functional specialist positions, with potential for senior-level leadership positions or entrepreneurial careers.

Our doctoral degree programs prepare students for research and teaching careers in higher education and research careers in industry.

Our executive education programs provide customized problem solving for organizations.

We also employ our professional skills in service to the School, University, scholarly and professional organizations, and the regional business community. We capitalize on the diversified resources of the Metropolitan Milwaukee business community and use them as a living laboratory to enrich our scholarly and instructional pursuits.

AACSB Accreditation

The Lubar School of Business has been continuously accredited by AACSB International for over 45 years. Why is this important? Because business schools accredited by AACSB International are considered to be the best business schools in the world — in fact, only 5% of business schools worldwide have this distinction. AACSB-accredited schools have tougher quality standards for programs and faculty, better students with higher overall GPAs, more employers that recruit from them, and graduates that receive higher salaries.

In addition, the Lubar School of Business accounting programs are separately accredited by AACSB. Lubar School of Business is one of only three accounting schools in the state, and one of 193 schools in the world, with this status.

Programs

Undergraduate

- Accounting, BBA (p. 357)
- Business of Media and Film Studies, Undergraduate Certificate (Lubar School of Business) (p. 356)
- Business Scholars Program (p. 372)
- Enterprise Resource Planning, Undergraduate Certificate (p. 374)
- Entrepreneurship, Undergraduate Certificate (p. 375)
- Finance, BBA (p. 377)
- General Business, Minor (p. 380)
- Global Studies, BA: Global Management (p. 381)
- Human Resources Management, BBA (p. 384)
- Information Technology Management, BBA (p. 387)
- International Business, Undergraduate Certificate (p. 391)
- Investment Management, Undergraduate Certificate (p. 393)
- Marketing, BBA (p. 407)
- Real Estate, Undergraduate Certificate (p. 419)
- Supply Chain and Operations Management, BBA (p. 421)
- Technology Entrepreneurship, Undergraduate Certificate (p. 424)

Graduate

- Business Administration, MBA (p. 360)
- Business Administration, MBA/Information Technology Management, MS (p. 363)
- Business Administration, MBA/Language, Literature, and Translation, MA (p. 364)
- Business Administration, MBA/Nursing Practice, DNP (p. 361)
- Business Analytics, Graduate Certificate (p. 371)
- Enterprise Resource Planning, Graduate Certificate (p. 373)
- Executive, MBA (p. 376)
- Human Resources and Labor Relations, MHRLR (Lubar School of Business) (p. 382)
- Information Technology Management, MS (p. 390)
- Investment Management, Graduate Certificate (p. 392)
- Management Science, PhD (p. 394)
- Management, MS (p. 396)
- Management, MS: Accounting (p. 397)
- Management, MS: Finance Analysis (p. 399)
- Management, MS: Marketing (p. 401)
- Management, MS: Professional Accounting (p. 403)
- Management, MS: Taxation (p. 405)
- Nonprofit Management and Leadership, MS (Lubar School of Business) (p. 410)
- Nonprofit Management, Graduate Certificate (Lubar School of Business) (p. 412)
- Public Administration, MPA (Lubar School of Business) (p. 414)
- Public Administration, MPA/Criminal Justice, MS (p. 416)
- Public Administration, MPA/Urban Planning, MUP (p. 418)
- State and Local Taxation, Graduate Certificate (p. 420)
- Technology Entrepreneurship, Graduate Certificate (p. 425)
Graduate Policies and Regulations
The Graduate School policies and regulations can be found at Graduate School Policies (p. 22). Please refer to the specific program for program policies and regulations.

Undergraduate Program Options

Double Majors
BBA students may pursue a double major in a second area of the Lubar School of Business. The double major can be declared in Lubar Hall N297; the advising staff in Undergraduate Student Services will explain this option and discuss the additional curriculum required.

Joint Degree Program
A student who plans to pursue a joint degree business program with another UWM college or school should seek advising early to design an appropriate program. The student must concurrently complete all requirements for the degree in the area other than the Lubar School of Business, as well as the requirements in the Lubar School of Business, as indicated below in the requirements for a second bachelor’s degree. A student electing to pursue a joint degree should submit a proposed program of study to the Lubar School of Business as soon as possible.

Second Bachelor’s Degree
A student with an accredited bachelor’s degree may work toward a second bachelor’s degree in the Lubar School of Business. Interested students should contact the academic advisors in Room N297 of Lubar Hall for further details. The second bachelor degree program is not offered in Accounting.

Degree requirements include completion of these BBA requirements:

- functional courses
- administrative analysis and techniques courses
- a professional major, and
- mathematics and economics courses.

Of these, at least 30 credits must be earned in residence at UWM while classified as a second-degree candidate. Students may receive credit towards a second bachelor’s degree for coursework taken in equivalent areas at other institutions. However, at least 50% of the business credit hours required for the business degree must be completed at UWM.

Business Special Student Options
Business Special Student status is available to applicants who have earned a baccalaureate degree at an accredited university or college. Also eligible for consideration are students needing coursework to complete a degree from another accredited institution, students in an international exchange program, or students who were admitted to UWM as a University Special Student with the ultimate goal of becoming degree-seeking in a business major. Business Special Students are eligible to take undergraduate courses only.

An official degree transcript of all university work, along with a statement of goals and objectives as a special student with a listing of requested courses, should be submitted directly to the Lubar School of Business Undergraduate Student Services (Room N297, Lubar Hall, uwmbba@uwm.edu).

Applications are reviewed weekly. Applicants without a degree who wish to take Lubar coursework in order to graduate from another institution must also submit a statement from their advisor, on official letterhead or via email, verifying the circumstances and course(s) required.

Post-baccalaureate Opportunities
Students who have completed a BBA degree at UWM can return to the campus and complete an additional business major. Students who have completed a bachelor’s degree in business at another accredited university can earn a Certificate of Major in the School. The Certificate of Major consists of a minimum of 12 UWM degree credits. The additional major option is not available in accounting.

Academic Regulations
For information on the University-wide Academic Action Policy and honors for scholarship, see Academic Policies (p. 27).

Student Academic Appeals
Students may appeal an academic action to the appropriate curriculum committee. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted electronically to Lubar Undergraduate Student Services. Undergraduate student appeals are reviewed by the School’s Undergraduate Program Committee’s Appeals Subcommittee. Students are advised in writing of the decision of the Committee. The Appeals Subcommittee considers individual cases concerning the degree requirements and other academic rules and regulations established by the Lubar School of Business faculty.

The Lubar School of Business has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Student Services Center. As a first step, students must discuss the grievance with the faculty member or administrator within 30 working days from the date of the action that prompted the grievance.

Business Administration Courses

BUS ADM 100 Introduction to Business
3 cr. Undergraduate.
Introduction to the nature and functions of business, the culture of the business world and business education, and the skills to be successful in both.
Prerequisites: not open for cr or regis to Business jr, pre-Business sr, or Business sr.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 199 Entrepreneurship Independent Study
1-3 cr. Undergraduate.
Independent work related to entrepreneurship.
Prerequisites: cons of Lubar School entrepreneurship instr.
Course Rules: May be retaken once for cr.
Current Offerings: http://uwm.edu/schedule
BUS ADM 200 Business and Society
3 cr. Undergraduate.
Integrated understanding of sources of competitive/strategic advantage
derived from corporate citizenship in the public policy, social, economics,
and ecological environments.
Prerequisites: soph st.
Course Rules: Counts as repeat of Bus Adm 295 w/same topic.
Current Offerings: http://uwm.edu/schedule

BUS ADM 201 Introduction to Financial Accounting
4 cr. Undergraduate.
Introduction to accounting and financial reporting concepts for business
students. Emphasizes use of financial statements by non-accountants.
Basics of accounting and reporting methods.
Prerequisites: soph st or cons instr.
Course Rules: Counts as repeat of Bus Adm 207.
Current Offerings: http://uwm.edu/schedule

BUS ADM 207 Business Scholars: Introduction to Financial Accounting
4 cr. Undergraduate.
Introduces financial accounting concepts and investigates current
financial reporting issues. Develops ability to prepare financial
statements and to understand and analyze annual reports of real-world
companies.
Prerequisites: soph st; Admis to Business Scholars Prog.
Course Rules: Not open for cr to those w/cr in Bus Adm 201.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 210 Introduction to Management Statistics
4 cr. Undergraduate.
Introduces statistical principles and techniques necessary for
management applications. Regression is presented to convey statistical
thinking, modeling and analysis.
Prerequisites: soph st; Math 211(C) or 231(C).
Course Rules: Counts as repeat of Bus Adm 211.
General Education Requirements:QLB
Current Offerings: http://uwm.edu/schedule

BUS ADM 211 Business Scholars: Introduction to Management Statistics
4 cr. Undergraduate.
Data presentation & statistical inference methods, probability concepts,
discrete & continuous probability models, categorical data & regression
methodologies, computer implementation, communication of statistical
results, & business applications.
Prerequisites: soph st; admis to Business Scholars Prog; Math 211(P) or
231(P).
Course Rules: Not open for cr to those w/cr in Bus Adm 210.
General Education Requirements:QLB
Current Offerings: http://uwm.edu/schedule

BUS ADM 230 Introduction to Information Technology Management
3 cr. Undergraduate.
Information technology management concepts; their role in business;
management of formal and informal information systems development;
business problem solving using microcomputer tools.
Prerequisites: none.
Course Rules: Counts as repeat of Bus Adm 231.
Current Offerings: http://uwm.edu/schedule

BUS ADM 231 Business Scholars: Introduction to Information Technology Management
3 cr. Undergraduate.
Fundamental concepts and application of information technology to
support the conduct and management of business activities. Lab tools
include common applications software for data gathering, analysis, and
presentation.
Prerequisites: admis to Business Scholars Prog or dept cons.
Course Rules: Not open for cr to those w/cr in Bus Adm 230.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 292 Introduction to Entrepreneurship and Small Business Formation
3 cr. Undergraduate.
Explore elements necessary for entrepreneurship to flourish. Larger
perspectives of the character and mental set of entrepreneurs and effect
on the success of the business.
Prerequisites: soph st.
Course Rules: Counts as repeat of Bus Adm 295 with similar topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 295 Management Seminar:
1-3 cr. Undergraduate.
Analysis of current topics and issues related to specific management
areas of business. Specific topics and additional prerequisites may
appear in the Schedule of Classes whenever the course is offered.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work levels, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

BUS ADM 298 Study Abroad: Business Topics:
3 cr. Undergraduate.
Immersion (including instruction at an international university) in the
economic, cultural, and business practices of selected countries.
Prerequisites: soph st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: UWinteriM 2016, Summer 2015, Summer 2014, UWinteriM
2013.
Current Offerings: http://uwm.edu/schedule
BUS ADM 300 Career and Professional Development
1 cr. Undergraduate.
Skills necessary to enter the job market. Includes professional
correspondence, resume writing, interviewing and networking skills, and
professional etiquette.
Prerequisites: soph st; Bus Adm 301(C) or 335(C) or 330(C) or 350(C) or
360(C) or 370(C).
Course Rules: May not be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 301 Intermediate Accounting
4 cr. Undergraduate.
Understanding the economic impact of business transactions and
and serving the information needs of statement users. Use of accounting
principles to guide financial reporting and disclosure.
Prerequisites: soph st; Bus Adm 201(P).
Course Rules: Not open for credit to Accounting majors.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 302 Managerial Accounting
3 cr. Undergraduate.
The analysis, interpretation and use of accounting data for effective
managerial planning, control, and decision making.
Prerequisites: soph st; Bus Adm 201(P).
Course Rules: Not open for credit to Accounting majors.
Current Offerings: http://uwm.edu/schedule

BUS ADM 305 Personal Investing and Financial Planning
3 cr. Undergraduate.
Introduction to investing for individuals with emphasis on the personal
planning process, issues, and strategies.
Prerequisites: soph st.
Course Rules: Not open for credit to Accounting majors who are
concurrently enrolled or have completed Bus Adm 301.
Current Offerings: http://uwm.edu/schedule

BUS ADM 330 Organizations
3 cr. Undergraduate.
An introduction to human behavior in organizations, organizational
structures and processes, and interactions between organizations and
their environments. Students will examine various theories and research
findings on selected topics.
Prerequisites: jr st.
Course Rules: Counts as repeat of Bus Adm 331.
Current Offerings: http://uwm.edu/schedule

BUS ADM 331 Business Scholars: Organizations
3 cr. Undergraduate.
Behavioral theories and management principles for understanding
behavior in organizations; individual and organizational processes, and
their interaction. Includes current and classic research, and application.
Prerequisites: jr st; admis to Business Scholars Prog.
Course Rules: Not open for cr to those w/cr in Bus Adm 330.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 333 Visual System Development
3 cr. Undergraduate.
Visual-oriented techniques for business applications development; visual-
directed design and development methodologies; use of event driven and
graphical controls; implementation with an appropriate language.
Prerequisites: soph st; a grade of 'C' or better in Bus Adm 230(P) or
231(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 336 Enterprise Systems and Data Analytics
3 cr. Undergraduate.
Introduction to business processes and ERP utilizing ERP to run business
simulation game and analysis of results utilizing business analytics.
Prerequisites: soph st; a grade of 'C' or better in Bus Adm 230(P) or
231(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 350 Principles of Finance
3 cr. Undergraduate.
Fundamentals of financial management, asset/liability valuations, risk
and return, investment analysis, sources and uses of funds, cost of
capital, and cash management.
Prerequisites: soph st; Econ 103(P) & 104(P); Bus Adm 201(P) or 207(P);
Bus Adm 210(P) or 211(P).
Course Rules: Counts as repeat of Bus Adm 351. Not open for cr to those
w/cr in Bus Adm 450.
Current Offerings: http://uwm.edu/schedule

BUS ADM 351 Business Scholars: Principles of Finance
3 cr. Undergraduate.
Fundamentals of financial management, analysis of financial statements,
and investment analysis, sources and uses of funds, cost of capital, and
cash management.
Prerequisites: soph st; Econ 103(P) & 104(P); Bus Adm 201(P) or 207(P);
Bus Adm 210(P) or 211(C).
Course Rules: Not open for cr to those w/cr in Bus Adm 350.
Current Offerings: http://uwm.edu/schedule

BUS ADM 360 Principles of Marketing
3 cr. Undergraduate.
The marketing system is analyzed as the process in our socioeconomic
system for anticipating and satisfying consumer needs, adjusting to
demand, and selling and procuring products and services. Competition,
pricing, product line, distribution systems, promotion, and planning are
discussed.
Prerequisites: jr st; Econ 104(P).
Course Rules: Counts as repeat of Bus Adm 361.
Current Offerings: http://uwm.edu/schedule
### BUS ADM 361 Business Scholars: Principles of Marketing
3 cr. Undergraduate.
Marketing theory and tactics in context of current external marketing environment. Discussion of current marketing issues, failures, and successes along with industry and company strategic differences. Analytical tools used for team project.
Prerequisites: jr st; admis to Business Scholars Prog; Econ 104(P).
Course Rules: Not open for cr to those w/cr in Bus Adm 360.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 370 Introduction to Supply Chain Management
3 cr. Undergraduate.
Broad survey of the foundational concepts and principles of managing supply chain operations. Topics include customer management, purchasing, logistics, project management, demand planning.
Prerequisites: soph st; Bus Adm 210(C) or 211(C).
Course Rules: Counts as repeat of Bus Adm 371.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 371 Business Scholars: Introduction to Supply Chain Management
3 cr. Undergraduate.
Broad survey of foundational concepts and principles of managing supply chain operations. Topics include customer management, purchasing, logistics, project management, demand planning, quantitative and computer applications.
Prerequisites: soph st; admis to Business Scholars Prog; Bus Adm 211(P).
Course Rules: Not open for cr to those w/cr in Bus Adm 370.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 372 Business Scholars: Principles of Supply Chain Management
3 cr. Undergraduate.
The course focuses on real estate investment decisions as they are made within the framework of institutional controls consisting of social, political, and economic forces.
Prerequisites: jr st; Econ 104(P).
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 380 Introduction to Real Estate Markets
3 cr. Undergraduate.
The course focuses on real estate investment decisions as they are made within the framework of institutional controls consisting of social, political, and economic forces.
Prerequisites: jr st; Bus Adm 481(P); writ cons instr.
Course Rules: Counts as repeat of Bus Adm 489. Credit/no credit only.
Last Taught: Fall 2017, Summer 2017, Fall 2013.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 389 Real Estate Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the real estate area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st; Bus Adm 481(P); writ cons instr.
Course Rules: Counts as repeat of Bus Adm 489. Credit/no credit only.
Last Taught: Fall 2017, Summer 2017, Fall 2013.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 390 Business Law I
3 cr. Undergraduate.
The court system, tort law, agency and employment law; contract law and sales transactions; professional liability; and legal ramifications of selecting appropriate business organization.
Prerequisites: jr st.
Course Rules: Counts as repeat of Bus Adm 390.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 391 Business Law II
3 cr. Undergraduate.
The court system, tort law, agency and employment law; contract law and sales transactions; professional liability; and legal ramifications of selecting appropriate business organization.
Prerequisites: jr st.
Course Rules: Counts as repeat of Bus Adm 390.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 393 Business Ethics & Social Responsibility
3 cr. Undergraduate.
Ethical dimensions of economy, management decision-making, and corporate social responsibility. Ethical framework for assessment of business practices. Includes case discussions.
Prerequisites: soph st.
Course Rules: Counts as repeat of Bus Adm 295 with similar topic.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 394 Human Resources Management Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the human resources management area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st & admis to HRM major; completion of at least one 400-level course in HRM major; writ cons instr.
Course Rules: Credit/no credit only.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 395 Special Topics in Business:
1-3 cr. Undergraduate.
Current topics and issues related to specific management areas of business. Specific topics and additional prerequisites announced in Schedule of Classes whenever the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr. Counts as repeat of Bus Adm 295 or 495 with same topic.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 396 Finance Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the finance area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st & admis to finance major; completion of at least one 400- or 500-level course in finance major; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 397 Marketing Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the marketing area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st & admis to marketing major; completion of at least one 400-level course in marketing major; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### BUS ADM 398 Supply Chain & Operations Management Internship
3 cr. Undergraduate.
A faculty-supervised new work experience in the SCOM area which covers a minimum of 150 hours during the semester.
Prerequisites: jr st & admis to SCOM major; completion of at least one 400- or 500-level course in SCOM major; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)
BUS ADM 400 Accounting Professional Internship
3 cr. Undergraduate.
A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/public accounting environment.
Prerequisites: sr st & admis to accounting major; Bus Adm 300(P); Bus Adm 301(P) and one 400-level accounting course; writ cons instr.
Course Rules: Prior approval of intern director is required. Credit/no credit only.
Current Offerings: http://uwm.edu/schedule

BUS ADM 402 Advanced Financial Accounting
3 cr. Undergraduate.
Study of advanced financial accounting issues such as interim reporting, leases, specialized revenue recognition, tax allocation, dilutive securities, derivatives, and financial troubled entities.
Prerequisites: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 403 Consolidations and Governmental Accounting
3 cr. Undergraduate.
Understand and apply concepts related to accounting for consolidations and for governmental and not-for-profit accounting.
Prerequisites: jr st & admis to Bus Adm major; a grade of B or better in Bus Adm 301(P); Bus Adm 402(C).
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 404 Cost Management
3 cr. Undergraduate.
Design, implementation, and use of optimal accounting systems for product and service costing, internal and external financial reporting, managerial decision support, and organizational control.
Prerequisites: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 405 Income Tax Accounting I
3 cr. Undergraduate.
Introduction to tax issues inherent in business and financial transactions, with an emphasis on the federal individual and corporate income tax.
Prerequisites: jr st & admis to Bus Adm major; a grade of ‘C’ or better in Bus Adm 301(P); or grad st & Bus Adm 721(C).
Current Offerings: http://uwm.edu/schedule

BUS ADM 406 Income Tax Accounting II
3 cr. Undergraduate/Graduate.
Application of framework developed in Income Tax Accounting I (Bus Adm 405) to more thoroughly analyze the taxation of business entities.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 405(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 408 Accounting Information Systems
3 cr. Undergraduate/Graduate.
Introduction to accounting information systems and related technology, principles of accounting systems design, internal controls and coverage of commercial accounting software packages.
Prerequisites: jr st & admis to Bus Adm major; a grade of ‘C’ or better in Bus Adm 301(P); or grad st & Bus Adm 721(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 409 Auditing: Procedures and Applications
3 cr. Undergraduate.
An introduction to the audit process from an internal and external perspective with an emphasis on practical applications and technological innovations.
Prerequisites: jr st & admis to Bus Adm major; a grade of ‘B’ or better in Bus Adm 301(P); Bus Adm 402(P) & 408(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 410 Accountants' Ethical Responsibilities
1 cr. Undergraduate.
Study of ethical and societal responsibilities and constraints that define and affect the practice of accountancy. Includes selected readings, guest speakers, and cases.
Prerequisites: jr st & admis to Bus Adm major; a grade of ‘B’ or better in Bus Adm 301(P); Bus Adm 409(C).
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

BUS ADM 424 US Institutions Shaping Accounting & Auditing Standards
3 cr. Undergraduate.
An introduction to the audit process from an internal and external perspective with an emphasis on practical applications and technological innovations.
Prerequisites: jr st & admis to Bus Adm major; a grade of ‘B’ or better in Bus Adm 301(P); Bus Adm 409(C).
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

BUS ADM 432 Object-Oriented Systems Development
3 cr. Undergraduate.
Object-oriented concepts and use in management applications; object-oriented design and development methodologies; managing programs and structures; implementation with an appropriate language.
Prerequisites: jr st & admis to Bus Adm major; a grade of ‘C’ or better in Bus Adm 335(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 433 Information Technology Project Management
3 cr. Undergraduate.
In-depth exposure to key tools, techniques, practices, and knowledge areas of IT project management. Microsoft 2003 used to support.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 436(P).
Last Taught: Spring 2014, Spring 2013, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule
BUS ADM 434 Data Base Management Systems
3 cr. Undergraduate.
Database concepts; data modeling; SQL; fourth generation languages; data resource management; client/server databases; implementation using commercial DBMS products.
Prerequisites: jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 436 Systems Analysis and Design
3 cr. Undergraduate.
Systems development methodologies; systems modeling, requirements specification, structured design, and systems implementation; use of automated development tools.
Prerequisites: jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 438 Information Technology Management Topics:
3 cr. Undergraduate.
Contemporary topics for IT practitioners. Typical offerings include distributed information systems, management of IT, decision support systems, end-user computing, multimedia systems. Additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st & admis to Bus Adm major; Grade 'C' or better in Bus Adm 335(P); or cons instr.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 439 Information Technology Management Professional Internship
3 cr. Undergraduate.
A defined FT one semester work period, potentially leading to FT employment in a corporate/governmental/management consulting environment.
Prerequisites: jr st & admis to ITM major; Bus Adm 300(P); one 400- or 500-level ITM course; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: http://uwm.edu/schedule

BUS ADM 440 Compensation Management
3 cr. Undergraduate.
Ways organizations use wage and salary management to attract, retain, and motivate employees. Review of traditional and innovative compensation methods for administering pay.
Prerequisites: jr st, admis to Bus Adm major, Bus Adm 444(P) or grad st & Bus Adm 738(P).
Course Rules: Counts as repeat of Bus Adm 443 with similar title.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 441 Diversity in Organizations
3 cr. Undergraduate/Graduate.
Conceptual and experiential understanding of cultural values and practices among diverse groups in organizations. Addresses institutional and personal discrimination, stereotyping and prejudice.
Prerequisites: jr st, admis to Bus Adm major, & Bus Adm 330(C); or grad st.
Course Rules: Counts as repeat of Bus Adm 443 with similar title.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 442 Industrial Psychology
3 cr. Undergraduate/Graduate.
Application of psychological principles to industrial problems.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); & Psych 101(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 443 Special Topics in Human Resources Management:
3 cr. Undergraduate/Graduate.
Selected topics in human resources management. Specific topics will appear in the Schedule of Classes whenever the course is offered.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); or grad st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 444 Human Resources Management
3 cr. Undergraduate.
An examination of the personnel function of the enterprise as an activity concerning all managers within the firm. General topics include the personnel function, maximizing human potential, supervision, and wage and salary administration.
Prerequisites: jr st, admis to Bus Adm major; Bus Adm 330(P) or 331(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 445 Training & Development in Organizations
3 cr. Undergraduate/Graduate.
Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.
Prerequisites: jr st, admis to Bus Adm major, & Bus Adm 444(P); or grad st.
Course Rules: Counts as repeat of Bus Adm 443 with similar title. Not open to students w/cr in Commun 327(ER).
Current Offerings: http://uwm.edu/schedule

BUS ADM 447 Entrepreneurship
3 cr. Undergraduate.
Study of creation, growth/or acquisition of business through entrepreneurial efforts. Nature of entrepreneurship process and organization of growth oriented companies. Topics include methods of financing, venture capital, leveraged buy-outs and acquisitions.
Prerequisites: jr st; Bus Adm 350(P) or writ cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
BUS ADM 448 Staffing Human Resources
3 cr. Undergraduate.
Planning, recruiting, selection, and hiring functions in organizations within the context of its legal environment. Includes application of spreadsheet and data analysis.
Prerequisites: jr st, admis to Bus Adm major; & Bus Adm 444(P); or grad st & Bus Adm 738(P).
Course Rules: Counts as repeat of Bus Adm 443 with similar title.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 449 Human Resources Management Professional Internship
3 cr. Undergraduate.
A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.
Prerequisites: sr st & admis to HRM major; Bus Adm 300(P) & completion of at least one 400-level course in the HRM major; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: http://uwm.edu/schedule

BUS ADM 450 Intermediate Finance
3 cr. Undergraduate.
Theories of valuation, corporate governance, and capital structure. Other topics explored such as dividend policy, financing methods, corporate and financial restructurings, and global financial management.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P), or an Accounting major with grade of B or better in Bus Adm 301(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 451 Investment Finance
3 cr. Undergraduate.
A study of the financial system and institutions and the primary forces, which affect this system within which firms operate. Emphasis is on the instruments and interactions in the money and capital markets, and on analysis of firms for purposes and valuation of bonds and stocks for portfolio management.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 450(C).
Current Offerings: http://uwm.edu/schedule

BUS ADM 452 Applied Portfolio Management
3 cr. Undergraduate.
Study institutional setting, legal framework, portfolio strategies, and innovations in investment markets. Explore securities valuation, risk management, behavioral study, and prospects of market developments.
Prerequisites: jr st, admis to Bus Adm major; Bus Adm 451(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 453 Corporate Finance Seminar
3 cr. Undergraduate.
Integration of financial operations with other operations of a business unit, including working capital management, financial planning and financial control.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 450(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 454 Analysis of Options and Futures
3 cr. Undergraduate.
Valuate interest rate, equity, and stock index futures and options. Develop strategies using these instruments in hedging interest rate and equity portfolio risk.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 451(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 455 Financial Institutions
3 cr. Undergraduate.
Financial intermediation by banks and other financial institutions. Financial instruments and the markets where they trade. Term structure of interest rates and monetary issues.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 456 International Financial Management
3 cr. Undergraduate.
Introduction to international financial markets, exchange rate determination theory, concepts/measurement of foreign risk exposure, financial instruments to hedge exchange risk, and financing multinational enterprises.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 457 Financial Modeling
3 cr. Undergraduate.
Development and application of computer-based financial models. Models from corporate finance and investments use Microsoft Excel and Visual Basic for Applications (VBA).
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 450(P) & 451(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 458 Venture Finance
3 cr. Undergraduate.
Corporate financial perspectives. Key institutional features of venture finance. Assess financial need, value of and claims on new ventures. Analyze contracts between entrepreneurs and outside vendors.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 450(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 459 Finance Professional Internship
3 cr. Undergraduate.
A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.
Prerequisites: sr st & admis to finance major; Bus Adm 300(P) & completion of at least one 400- or 500-level course in finance major; writ cons instr.
Course Rules: Credit/no credit only.
Current Offerings: http://uwm.edu/schedule
BUS ADM 460 Retail Management
3 cr. Undergraduate.
Principles of retail management including merchandising, product design and development, sales, store management, distribution and inventory management, public relations and advertising.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).
Course Rules: Counts as repeat of Bus Adm 467 with similar topic.
Current Offerings: http://uwm.edu/schedule

BUS ADM 461 Consumer Behavior
3 cr. Undergraduate.
Interdisciplinary approach to study of buying behavior of consumers, with emphasis on implications for marketing of theory and findings from the behavioral sciences.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 462 Marketing Research
3 cr. Undergraduate.
Research process as an aid to decision-making in marketing management. Attention is given to planning research and the gathering, analysis, and interpretation of information.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 210(P) or 211(P); & 360(P) or 361(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 463 Marketing Management
3 cr. Undergraduate.
Development and implementation of marketing plans. Strategic decision-making and organizational issues pertinent to target markets, advertising, personal selling, channels, pricing, and product development.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 461(P) & 462(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 464 Management of Promotion
3 cr. Undergraduate.
Theory and concepts in developing and implementing communications strategies. Analysis of psychological, social and economic variables affecting promotion decisions.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 461(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 465 International Marketing
3 cr. Undergraduate.
Focus is on the environment and on the modifications of marketing thinking and practices, occasioned by differences in economic, social and cultural settings of countries.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 466 Business to Business Sales and Marketing
3 cr. Undergraduate.
Development, pricing, promotion and distribution of business productions and services targeted at organizational buyers. Special focus on business sales processes and effective personal selling strategies.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 467 Marketing Seminar:
3 cr. Undergraduate.
In-depth focus on specialized topics in marketing such as business-to-business sales and marketing, database and interactive marketing, and international marketing research and strategies.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 468 Internet Marketing
3 cr. Undergraduate.
Introduction to the principles of Internet marketing, types of products that can be marketed online, communication and pricing strategies, customization, channel conflict resolution. Hands-on project required.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 461(P) or 462(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 469 Marketing Professional Internship
3 cr. Undergraduate.
A defined FT work period, minimum 10 weeks, potentially leading to FT employment in corporate/governmental/management consulting environment.
Prerequisites: sr st & admis to marketing major; Bus Adm 300(P) & completion of at least one 400-level course in the marketing major; writ cons instr.
Course Rules: Credit/no credit only.
Last Taught: Summer 2017, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BUS ADM 472 Special Topics in Supply Chain and Operations Management:
3 cr. Undergraduate.
Selected contemporary topics and issues confronting supply chain and operations managers.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 475 Operations Planning and Control
3 cr. Undergraduate.
Detailed focus on planning and controlling operations of a service or manufacturing operation. Topics include requirements planning and scheduling.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
BUS ADM 476 Logistics and Transportation Management
3 cr. Undergraduate.
Logistics and transportation themes including warehousing, third party logistics.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).
Course Rules: Counts as repeat of Bus Adm 472 with similar topic.
Current Offerings: http://uwm.edu/schedule

BUS ADM 477 Purchasing and Supply Management
3 cr. Undergraduate.
Domestic and global aspects of the purchasing function in an organization.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).
Course Rules: Counts as repeat of Bus Adm 472 with similar topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 478 Supply Chain Analytics
3 cr. Undergraduate.
Topics include linear and nonlinear optimization, network modeling, decision making under uncertainty, time series forecasting, and simulation modeling.
Prerequisites: sr st & admis to Bus Adm major; Bus Adm 300(P) and completion of at least one 400- or 500-level SCOM course; writ cons instr.
Course Rules: Cr/no cr only.
Last Taught: Spring 2018, Fall 2017, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BUS ADM 479 Supply Chain & Operations Management Professional Internship
3 cr. Undergraduate.
Defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.
Prerequisites: sr st & admis to Bus Adm major; Bus Adm 300(P) and completion of at least one 400- or 500-level SCOM course; writ cons instr.
Course Rules: Cr/no cr only.
Last Taught: Spring 2018, Fall 2017, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BUS ADM 481 Real Estate Finance
3 cr. Undergraduate/Graduate.
Mechanism of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of government agencies; real estate investment analysis.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 380(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 482 Valuation of Real Estate
3 cr. Undergraduate/Graduate.
Economic theories of value applied to real estate; valuation as a guide to business decisions; real estate market which affects value; valuation methods, analysis of evidence of value; appraising residential and income properties.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 380(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 483 Property Development and Management
3 cr. Undergraduate/Graduate.
Analysis of real estate development; consideration of site selections, market analysis, financing, design, and construction in connection with subdividing residential community development and shopping centers.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 481(P) or grad st.
Current Offerings: http://uwm.edu/schedule

BUS ADM 484 Real Estate Law
3 cr. Undergraduate.
Advanced application of business law concepts related to real estate transactions and developments; landlord/tenant law; analysis of legal concerns unique to real estate industry.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 391(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 485 Environmental Issues in Real Estate
3 cr. Undergraduate.
Survey course dealing with the impact of governmental environmental regulations on lender and developer liability. Topics include Phase 1 reporting, legal considerations, remediation, and wetland impacts.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 380(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 490 Entrepreneur Internship
3 cr. Undergraduate.
A defined work period in an entrepreneurial capacity in a corporate, governmental, or management consulting environment.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 447(P) or completion of at least one 400-level course in student’s major; writ cons instr.
Course Rules: Credit/no credit only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 491 Legal Issues for Entrepreneurs
3 cr. Undergraduate.
Legal issues confronting entrepreneurs including the areas of ethics, forms of business organization, sales contracts, employment, property and business succession.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 391(P).
Course Rules: Not open for credit to Business Scholars who completed Bus Adm 493 with similar topic. Not open for credit to Accounting majors.
Current Offerings: http://uwm.edu/schedule

BUS ADM 492 Business Modeling of New Ventures
3 cr. Undergraduate.
Key elements in developing an effective business model; new venture ideas and strategies; the owner manager; management succession.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 292(P) or Bus Adm 447(P).
Current Offerings: http://uwm.edu/schedule
BUS ADM 493 Business Scholars: Seminar in Business:
3 cr. Undergraduate.
Current topics and issues in contemporary business theory and
management practice, focusing on in-depth study, critical analysis,
research and application across functional areas. Specific topics and
additional prerequisites announced in Timetable whenever course is
offered.
Prerequisites: jr st; admis to Business Scholars Prog.
Course Rules: May be retaken w/chg in topic to a 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 494 International Business Internship
3 cr. Undergraduate.
A supervised international management-related and cross-cultural
experience with a for-profit or non-profit organization outside the U.S.
Project and organizational evaluation required. Credit/no credit only.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P),
301(P) or 350(P) or 351(P), and 360(P) or 361(P); writ cons instr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 495 Special Topics in Business:
1-3 cr. Undergraduate.
Current topics and issues related to specific management areas of
business. Specific topics and additional prerequisites announced in
Schedule of Classes whenever course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BUS ADM 496 International Business
3 cr. Undergraduate.
The study of major factors specific to the conduct of business in
international markets; focuses on the integration of marketing, finance,
production, and other management functions into the world business,
cultural, social, and political environments.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P);
Bus Adm 301(P) or 350(P) or 351(P), and 360(P) or 361(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work levels, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

BUS ADM 498 Study Abroad: Business Topics:
3 cr. Undergraduate.
Immersion (including instruction at an international university) in the
economic, cultural, and business practices of selected countries.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 499 Research in Industry
1-3 cr. Undergraduate.
Solution of business problems as jointly developed by the student, the
assigned faculty, and the cooperating company. Work will consist of
problem solving through the use of university resources and library
research.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken for cr only with prior cons Lubar School of
Business.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 530 Introduction to eBusiness
3 cr. Undergraduate.
Opportunities, technical platforms, and limitations of eBusiness over the
Internet. Various eBusiness models and implementation technologies will
be discussed.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in
Bus Adm 335(P).
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BUS ADM 531 Developing Web Applications Using Web Services
3 cr. Undergraduate.
Developing n-tier systems with Web Services and the Internet, using
visual languages such as Visual Basic Script and C# and the SOAP and
XML protocols.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 432(P).
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

BUS ADM 532 Web Development for Open Business Systems
3 cr. Undergraduate.
Business applications and web development based on platform-
independent objective-oriented technologies and database connectivity
in creating information systems for eBusiness activities.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 432(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 533 Information Technology Infrastructure for Business
3 cr. Undergraduate.
Familiarize students with new infrastructure developments in
telecommunications and network technologies, as well as their
managerial and business applications.
Prerequisites: jr st & admis to Bus Adm major; a grade of C or better in
Bus Adm 335(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 534 Advanced Information Technology Project Management
3 cr. Undergraduate.
Student-teams will compete for and work on a real-world IT project and
present the completed project to the company's stakeholders.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 433(P).
Course Rules: Credit/no credit only.
Last Taught: Spring 2011.
Current Offerings: http://uwm.edu/schedule
BUS ADM 535 Global Information Technology Management
3 cr. Undergraduate.
Management issues surrounding the effective deployment of information systems in different regions of the world.
Prerequisites: Jr st & admis to Bus Adm Major; a grade of C or better in Bus Adm 335(P) or 336(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 536 Business Intelligence
3 cr. Undergraduate.
Introduction to business intelligence, with a focus on data warehousing and data mining. This course uses SAP Business Information Warehouse software.
Prerequisites: Jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 335(P) or 336(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 537 Enterprise Systems Concepts and Issues
3 cr. Undergraduate.
Advanced concepts in ERP and integrated nature of business processes, and all major components of SAP R/3 and NetWeaver tools.
Prerequisites: Jr st & admis to Bus Adm major; grade of C or better in Bus Adm 335(P) or 336(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 538 Business Process Integration
3 cr. Undergraduate.
Prerequisites: Jr st & admis to Bus Adm major; Bus Adm 537(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 539 Web Application Server Development
3 cr. Undergraduate.
ERP Web Application Servers; Web Dynpro for Java to develop Web Applications, Web services and portal content which exposes data from SAP Business Suite.
Prerequisites: Jr st & admis to Bus Adm major; grade of C or better in Bus Adm 335(P) or 336(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 540 TERP 10 Certification
3 cr. Undergraduate.
This course is designed to prepare students for taking the TERP10 Certification Exam - the global baseline certification standard for SAP University Alliances Program.
Prerequisites: Jr st & admis to Bus Adm major; Bus Adm 536(P), 537(P), and 538(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 541 Cross-Cultural Management
3 cr. Undergraduate.
Business cultures around the world; the impact of cultural differences in international management and negotiations.
Prerequisites: Jr st & admis to Bus Adm major or declared Global Studies program; Bus Adm 330(P).
Course Rules: Bus Adm 541 and Global 541 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 542 Introduction to Technology Entrepreneurship
3 cr. Undergraduate.
Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities.
Prerequisites: Jr st & admis to Tech Entrep Cert program or admis to business or engineering major.
Course Rules: Counts as repeat of Bus Adm 495 or MechEng 490 with same topic. Jointly offered with & counts as repeat of MechEng 542.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 543 Introduction to Technology Management and Innovation
3 cr. Undergraduate.
Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects.
Prerequisites: Jr st & admis to Tech Entrep Cert program or admis to business or engineering major.
Course Rules: Counts as a repeat of Bus Adm 495 with same topic. Jointly offered with & counts as repeat of MechEng 543.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 544 New Product Development
3 cr. Undergraduate/Graduate.
Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.
Prerequisites: Jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major, or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as a repeat of Bus Adm 795 with same topic. Jointly offered with & counts as a repeat of MechEng 544.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

BUS ADM 546 Global Innovation Management
3 cr. Undergraduate/Graduate.
Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.
Prerequisites: Jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major, or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as a repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of MechEng 546.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule
BUS ADM 548 Technology Venturing Project
3 cr. Undergraduate.
A capstone course for students to demonstrate their knowledge and skills related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major; Bus Adm/Mech Eng 542(P).
Course Rules: Jointly offered with & counts as repeat of MechEng 548.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 551 International Investments
3 cr. Undergraduate.
Prerequisites: jr st, admis to Bus Adm major; & Bus Adm 451(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 552 Investment Management Practice I
3 cr. Undergraduate/Graduate.
Introduction to the real-time and historic data sets available in the David O. Nicholas Applied Finance Lab. Utilize Bloomberg, FactSet, and other analysis packages.
Prerequisites: jr st, admis to Investment Mgmt Cert program, Bus Adm 301(C) & 451(C); or grad st, admis to Investment Mgmt Cert program, Bus Adm 301(C) or 721(C); 771(C).
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 553 Investment Management Practice II
3 cr. Undergraduate/Graduate.
Students manage an investment portfolio utilizing the David O. Nicholas Applied Finance Lab. Topics include securities selection, portfolio hedging, behavioral finance, and financial market events.
Prerequisites: jr st, admis to Investment Mgmt Cert program & Bus Adm 552(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 552(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 554 Investment Management Practice III
3 cr. Undergraduate/Graduate.
Students independently conduct special study to assist individual future professional development and gain maturity and confidence in real world investment management.
Prerequisites: jr st, admis to Investment Mgmt Cert program & Bus Adm 553(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 553(P).
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 571 Quality and Six Sigma Tools
3 cr. Undergraduate.
Principles and techniques for managing and improving quality in manufacturing and service operations. Topics include lean principles, quality function deployment, FMEA, DOE, others.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 576 Enterprise Planning in the Supply Chain
3 cr. Undergraduate.
Coverage of techniques for managing work processes within and across the supply chain. An integrated perspective is emphasized through hands-on experience with an enterprise software.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 475(P), 476(P) & 477(P).
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 577 Supply Chain Applications, Policy, & Strategy
3 cr. Undergraduate.
Designed to develop a linkage between SCM and corporate strategy, a case study approach to build an integrated view of the SCM. Business game provides practical experience.
Prerequisites: jr st & admis to Bus Adm major; Bus Adm 475(P), & 476(P) or 477(P).
Course Rules: Counts as repeat of Bus Adm 472 with topics Supply Chain Strategy and Supply Chain Apps & Policy.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 599 Reading and Research-Business Administration
1-3 cr. Undergraduate.
May be retaken for cr only with prior approval of Lubar School of Business.
Prerequisites: jr st; cons instr & Bus Adm.
Course Rules: May be retaken for cr only with prior approval of Lubarsch School of Business.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 600 Management Analysis
3 cr. Undergraduate.
Administrative processes under conditions of uncertainty including integrating analysis of policy determination at the overall management level. Capstone course in business administration.
Prerequisites: sr st & admis to Bus Adm major; Bus Adm 301(P) or 302(P); Bus Adm 330(P) or 331(P); Bus Adm 350(P) or 351(P) or 450(C); & Bus Adm 360(P) or 361(P).
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 701 Business Mathematics
2 cr. Graduate.
Mathematical concepts essential to business. Exponents, polynomial functions, exponential and logarithmic functions, solution of linear systems, basic differential and integral calculus; emphasizes application to business problems.
Prerequisites: grad st.
Course Rules: Counts as repeat of BusMgmt 701.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 703 Financial Accounting
3 cr. Graduate.
Covers financial accounting model underlying financial statements, accounting standard setting, role of accounting in capital formation, interpretation and analysis of financial statements.
Prerequisites: grad st.
Course Rules: Counts as repeat of BusMgmt 702.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)
BUS ADM 713 Business Forecasting Methods  
3 cr. Graduate.  
Overview and use of modern forecasting methods in support of managerial strategic planning, financial, and operational analysis of a dynamic global business environment.  
Prerequisites: grad st; BusMgmt 709(P) or Bus Adm 754(P).  
Current Offerings: http://uwm.edu/schedule

BUS ADM 714 Multivariate Techniques in Management Research  
3 cr. Graduate.  
Multivariate analysis of variance, principal component analysis, factor analysis, conjoint analysis, bootstrap resampling, cluster analysis, canonical correlation, data mining (classification trees and neural networks); computer implementation.  
Prerequisites: grad st; BusMgmt 709(P) or Bus Adm 754(P).  
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2012.  
Current Offerings: http://uwm.edu/schedule

BUS ADM 720 Information Systems Auditing  
3 cr. Graduate.  
Testing and reliance of automated application, program change and data access controls for use in the financial statement audit and system integrity.  
Prerequisites: grad st; Bus Adm 409(P) or 728(P).  
Course Rules: Counts as repeat of Bus Adm 795 with similar topic.  
Current Offerings: http://uwm.edu/schedule

BUS ADM 721 Financial Accounting Theory  
3 cr. Graduate.  
The principles of external reporting are integrated with approaches to problem solving. Emphasis is placed upon recent developments of the accounting profession.  
Prerequisites: grad st; grade of B or better in Bus Adm 703(P) or 201(P) within three years of admission to the graduate program.  
Course Rules: Not open to students who have cr in Bus Adm 301(ER).  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

BUS ADM 722 Advanced Financial Accounting Theory  
3 cr. Graduate.  
Specialized topics in external financial reporting are studied. A critical appraisal is made of current and emerging accounting theory.  
Prerequisites: grad st; grade of B or better in Bus Adm 721(P) or 301(P).  
Last Taught: Summer 2017, Summer 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

BUS ADM 723 Forensic Accounting  
3 cr. Graduate.  
Coverage of forensic accounting and auditing topics such as examination of documents, information sources, writing reports, identifying high-risk signs, and fraud prevention and detection.  
Prerequisites: grad st; Bus Adm 409(P) or 728(P).  
Course Rules: Counts as repeat of Bus Adm 795 with similar topic.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

BUS ADM 724 Business Combinations and Governmental Accounting  
3 cr. Graduate.  
Accounting for mergers and acquisitions including consolidation procedures and foreign subsidiary investments. Also includes accounting principles for government and nonprofit entities.  
Prerequisites: grad st; grade of B or better in Bus Adm 721(P) or 301(P).  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

BUS ADM 725 Strategic Cost Management I  
3 cr. Graduate.  
Cost data accumulation and its utilization by management. Emphasis on job order and process costing, standard costing, cost-volume-profit analysis, budgets, capital expenditures.  
Prerequisites: grad st; grade of B or better in Bus Adm 703(P) or 201(P).  
Course Rules: Cannot be taken by students receiving cr for Bus Adm 404.  
Last Taught: Fall 2017, Fall 2016, Summer 2015, Summer 2014.  
Current Offerings: http://uwm.edu/schedule

BUS ADM 726 Strategic Cost Management II  
3 cr. Graduate.  
Uses quantitative and behavioral models to aid management planning and control. Emphasizes analysis techniques to aid in the solution of accounting oriented management problems.  
Prerequisites: grad st; Bus Adm 725(P) or 404(P).  
Course Rules: Not open to students who have cr in Bus Adm 426(ER).  
Last Taught: Fall 2015, Fall 2014, Fall 2013, Spring 2013.  
Current Offerings: http://uwm.edu/schedule

BUS ADM 728 Auditing Theory and Applications  
3 cr. Graduate.  
A study of auditing standards, methodology, and professional and reporting responsibilities. Emphasis is on underlying concepts and theory.  
Prerequisites: grad st; Bus Adm 408(P) and grade of B or better in Bus Adm 721(P) or 301(P).  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

BUS ADM 732 Transforming Organizations  
3 cr. Graduate.  
Combines individual and organizational-level analysis to provide insights into changing organizations. Topics include innovation, leadership, corporate cultures, and changing management from a broad view.  
Prerequisites: grad st; BusMgmt 714(P).  
Current Offerings: http://uwm.edu/schedule

BUS ADM 733 Organizational Development  
3 cr. Graduate.  
Problems of implementing change. Roles of external and internal consultants. Determining needs and measuring relevant variables.  
Prerequisites: grad st; BusMgmt 706(P) or cons instr.  
Current Offerings: http://uwm.edu/schedule
BUS ADM 734 Managing Technological Innovation
3 cr. Graduate.
Organizational and strategic issues involved in managing technologies and innovation processes. Emphasizes professional employees, creativity, project teams, leadership, interdepartmental relations, technological evolution, and R&D strategies.
Prerequisites: grad st.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 735 Staffing Organizations
3 cr. Graduate.
Broad overview of staffing practices and related research; topics include staffing strategy, legal compliance, job analysis, external recruitment and selection, staffing systems management, and retention.
Prerequisites: grad st
Course Rules: Not open for cr to those w/ cr in Bus Adm 795 w/ topic: Staffing.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 736 Seminar in Managing Change:
3 cr. Graduate.
Topics are limited to the areas of managing change and their business applications. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st
Course Rules: May be repeated w/ chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 737 Managerial Decisions and Negotiations
3 cr. Graduate.
Provides frameworks for making effective decisions and negotiating viable solutions. Improves performance in these key managerial roles by engaging in case study, exercises, and industry projects.
Prerequisites: grad st
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 738 Human Resource Management
3 cr. Graduate.
Strategies for attracting, retaining and developing a diverse and international workforce. Topics include employment law, diversity, staffing, training, performance management, compensation and current issues.
Prerequisites: grad st; BusMgmt 706(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 740 Information Technology Management Concepts and Languages
3 cr. Graduate.
Introduction to data organization, object-oriented design, construction and validation of application programs, development methodologies and control structures, illustrate with object programming language.
Prerequisites: grad st.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 741 Web Mining and Analytics
3 cr. Graduate.
Measurement methods and analysis of web-based data for strategic decisions; methods and technologies in web mining, visualization, predictive analytics and text mining for knowledge discovery and business analysis.
Prerequisites: grad st.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 743 Information Privacy, Security & Continuity
3 cr. Graduate.
Privacy threats and safeguards; identifying information system vulnerabilities; planning and managing security measures. Ethical and legal perspectives concerning information and data.
Prerequisites: grad st
Last Taught: Spring 2018, Spring 2017, Fall 2014, Fall 2012.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 744 Information Technology Strategy and Management
3 cr. Graduate.
Various frameworks to evaluate strategic value of IT, aligning IT and competitive business strategies, IT governance models, managing IT operations and outsourcing ethically.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 746 Topics in Information Technology Management:
3 cr. Graduate.
Topics are limited to the areas in management information systems and business application. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st
Course Rules: May be retaken with change in topic to max of 9 cr.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 747 Service-Oriented Analysis and Design
3 cr. Graduate.
Application development using service-oriented architecture, methodologies for specification, selection, composition, and integration of services, software quality assurance and metrics.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

BUS ADM 748 Managing Information Technology Projects
3 cr. Graduate.
Understand project management tools/techniques, project planning, software effort/cost estimation models, quality tools/metrics, six-sigma, CMM and ISO-9000, and managing outsourced/off-shored projects. Involves team-based project implementation.
Prerequisites: grad st; Bus Adm 747(P).
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)
BUS ADM 749 Data and Information Management
3 cr. Graduate.
Managing structured, semi-structured and unstructured data, data integrity management, data representation, data integration, governance and administration, data quality and reporting information.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

BUS ADM 751 Analysis of U.S. Business Environment
3 cr. Graduate.
Analysis of inflation, business cycles, interest rate dynamics and term structure, federal reserve policy, tax policy, and economic growth.
Prerequisites: grad st; Bus Adm 701(P) & 702(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 752 Corporate Economics
3 cr. Graduate.
Applied economic analysis of market structure, price discrimination, oligopoly, cartels, and collusion. The course integrates the psychology of price and behavioral economic issues in pricing.
Prerequisites: grad st in mba-executive curric or cons instr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 753 Advanced Business Law
3 cr. Graduate.
Advanced legal concepts focusing on Uniform Commercial Code, bankruptcy and creditor protection, liability of bailees and common carriers, product liability, and real and personal property.
Prerequisites: grad st; Bus Adm 391(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 754 Statistical Analysis
3 cr. Graduate.
Business applications of probability theory and statistical methods to managerial problems of prediction, inference and decision making under uncertainty.
Prerequisites: grad st; cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 755 Health Care Administration and Delivery Systems
3 cr. Graduate.
Covers administrative structures and processes in health care institutions, including managing clinicians and inter-organizational relationships of U.S. and selected foreign health care providers.
Prerequisites: grad st.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

BUS ADM 757 Managed Care and Integrated Health Networks
3 cr. Graduate.
Examines concepts and management of capitated and vertically integrated health care organizations; utilization control, risk and quality assessment, benefit design, pricing, management of clinical professionals.
Prerequisites: grad st; Bus Adm 755(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 759 Seminar in Health Care Management:
3 cr. Graduate.
Topics limited to the area of health care management. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st
Course Rules: May be repeated w/ chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

BUS ADM 761 Seminar in Marketing:
3 cr. Graduate.
Current and emerging topics in Marketing. Specific topics and any additional prerequisites will be listed in the Schedule of Classes each semester. May be repeated w/chg in topic to 6 cr. max.
Prerequisites: grad st.
Last Taught: Fall 2012, Fall 2010, Fall 2008, Summer 2006.
Current Offerings: http://uwm.edu/schedule

BUS ADM 762 Marketing Research
3 cr. Graduate.
Understanding the market research process, obtaining and integrating relevant information into marketing decision-making processes. Listening to the voice of the customer, customer satisfaction measurement and technology utilization for database marketing.
Prerequisites: grad st; BusMgmt 709(C) or cons of instr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 763 Marketing Analytics
3 cr. Graduate.
Theoretical background provided to develop hands-on experience analyzing marketing data and using statistical models for marketing decisions.
Prerequisites: grad st; BusMgmt 709(C) or cons instr.
Course Rules: Not open for cr to those w/cr in Bus Adm 761 or 795 w/ similar topic.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 764 Buyer Behavior and Marketing Communications
3 cr. Graduate.
A multidisciplinary approach to understanding buyer behavior processes in the market place and their implications for the development of marketing strategies, especially marketing communications.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

BUS ADM 765 Strategic Product and Brand Management
3 cr. Graduate.
Customer-focused product development and management; the creation and management of brand equity. Technology-marketing interface and customer involvement in product innovation and strategy.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
BUS ADM 766 Marketing for Nonprofit Organizations
3 cr. Graduate.
Explores ways in which non-business organizations such as hospitals, quasi-governmental agencies and educational institutions utilize marketing concepts and techniques in fulfilling their objectives.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

BUS ADM 768 Marketing Management
3 cr. Graduate.
Study and application of the concepts, tools and analyses that underlie strategic marketing decisions.
Prerequisites: grad st.
Last Taught: Fall 2013, Fall 2011, Fall 2009, Fall 2007.
Current Offerings: http://uwm.edu/schedule

BUS ADM 769 Database Marketing
3 cr. Graduate.
Introduction to using and analyzing data on current and prospective customers to increase sales, customer acquisition, and customer retention.
Prerequisites: grad st; BusMgmt 709(C) or cons instr
Current Offerings: http://uwm.edu/schedule

BUS ADM 771 Investments
3 cr. Graduate.
Financial assets pricing and selection for stocks, bonds, convertible securities, and warrants. Concepts of diversification, asset valuation models and derivative securities.
Prerequisites: grad st; BusMgmt 705(P) & BusMgmt 709(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 772 Portfolio Management
3 cr. Graduate.
Study of dynamic process that periodically matches investors' goals, objectives, and strategies with market expectations through portfolio construction and revision. Covers asset allocation, return optimization, and management of various asset types.
Prerequisites: grad st; Bus Adm 771(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 773 Options And Futures
3 cr. Graduate.
Pricing theories and models for options and futures contracts and their application to investment hedging, arbitrage, and portfolio management. Covers equity, fixed income, commodity, and currency options and futures.
Prerequisites: grad st; Bus Adm 771(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 774 Global Financial Management
3 cr. Graduate.
Analysis of financial problems corporations face when operating in an international environment. Emphasis on management of foreign exchange risk.
Prerequisites: grad st; Bus Mgmt 705(P).
Last Taught: Spring 2017, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

BUS ADM 775 Financial Strategy
3 cr. Graduate.
Application of financial theory to corporate strategic planning. Working capital management, capital budgeting, capital structure, dividend policy, global finance, and mergers and acquisitions.
Prerequisites: grad st; BusMgmt 705(P) & BusMgmt 709(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 777 Advanced Corporate Finance
3 cr. Graduate.
Critical examination and evaluation of modern corporate finance theory. Market efficiency, corporate investment decisions, capital structure, financing vehicles, risk management, corporate restructuring, and governance.
Prerequisites: grad st; Bus Adm 771(P), 775(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

BUS ADM 778 Financial Institutions and Markets
3 cr. Graduate.
Application of finance theory to financial management of firms including commercial banks, insurance companies, pension funds, mutual funds, and securities firms.
Prerequisites: grad st; BusMgmt 705(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 779 Fixed Income Securities
3 cr. Graduate.
Examination of the pricing and features of modern fixed income securities including treasuries, municipals, mortgage-backed, callable and putable bonds, convertibles, and interest rate swaps.
Prerequisites: grad st; Bus Adm 771.
Current Offerings: http://uwm.edu/schedule

BUS ADM 781 Enabling Supply Chains Using SAP
3 cr. Graduate.
Strategic perspectives on the role of information technology as an enabler of the supply chain processes. Hands-on use of enterprise resource planning (ERP) software.
Prerequisites: grad st; Bus Adm 703(C) and BusMgmt 711(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 782 Supply Chain Technology and Simulation
3 cr. Graduate.
Manufacturing innovations (e.g., lean manufacturing), manufacturing information systems, simulation-based technology development and prototyping, manufacturing systems design and simulation.
Prerequisites: grad st; BusMgmt 711(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 783 Supply Chain Management
3 cr. Graduate.
Management of supply chain, supply chain design, purchasing and distribution, supply contracts, and supply chain technology.
Prerequisites: grad st; BusMgmt 711(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
BUS ADM 785 Project Management and Innovative Operations
3 cr. Graduate.
Management of innovative business projects, including multi-tier contracting, cpm/per, virtual manufacturing, quality targeting and pursuit, and global operations.
Prerequisites: grad st; BusMgmt 711(P) & Bus Adm 782(C).
Current Offerings: http://uwm.edu/schedule

BUS ADM 786 Supply Chain Logistics Management
3 cr. Graduate.
Strategic perspectives on logistics management concepts, issues, and models. Topics include logistics information systems, inventory management, transportation methods, packaging, warehousing, and global issues.
Prerequisites: grad st; BusMgmt 711(P)
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 794 Enterprise Integration:
1 cr. Graduate.
Knowledge and skills important for effective integration and management of organizations across technical and business functions, and national and cultural boundaries. Topics vary and may include methods for quality improvement, management communications, business ethics, organizational leadership, etc.
Prerequisites: grad st in Bus Adm or prior approval of Bus Adm graduate prog services office.
Current Offerings: http://uwm.edu/schedule

BUS ADM 795 Seminar-in-Management:
1-3 cr. Graduate.
Intensive and critical examination of a specific management problem area or a related research question. Specific topic and additional prerequisites may appear in the schedule of classes each semester.
Prerequisites: grad st; appropriate management science core courses or cons instr.
Course Rules: Repeatable with change in topic.
Current Offerings: http://uwm.edu/schedule

BUS ADM 797 Management Project
2-4 cr. Graduate.
Investigation of an actual management problem or another substantive question in an allied discipline presented, for example, in the form of a business report or professional paper.
Prerequisites: grad st; cons instr.
Course Rules: May be retracted with change in topic with cons appropriate Lubar School of Business prog committee.
Last Taught: Fall 2017, Summer 2015, Summer 2013, Summer 2012.
Current Offerings: http://uwm.edu/schedule

BUS ADM 798 Strategic Planning in Public and Nonprofit Sectors
3 cr. Graduate.
Focuses on effective designs for strategic planning processes and assessment of external environmental and internal organizational characteristics, design, and evaluation of strategies.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

BUS ADM 799 Reading and Research
1-12 cr. Graduate.
Individual work suited to the needs of graduate students.
Prerequisites: grad st; cons instr.
Course Rules: May be retracted with change in topic with cons appropriate Lubar School of Business prog committee.
Current Offerings: http://uwm.edu/schedule

BUS ADM 800 Managing Global Organizations
3 cr. Graduate.
Theories, information, and research pertaining to management of international business including selected aspects of foreign investment decision, strategy development, organization and control of multinational operations.
Prerequisites: grad st.
Last Taught: Fall 2012, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

BUS ADM 806 International Marketing
3 cr. Graduate.
Examines international market development including determining objectives, evaluating market opportunities, entry strategies, and marketing mix in the international environment.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

BUS ADM 807 Seminar in International Business:
3 cr. Graduate.
Topics limited to the areas of international business. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st.
Course Rules: May be repeated w/ chg in topic to 6 cr max.
Last Taught: Fall 2011, Fall 2009, Fall 2007.
Current Offerings: http://uwm.edu/schedule

BUS ADM 809 International Business Strategy
3 cr. Graduate.
Examines the strategic planning and action of international firms from the perspective of corporate headquarters.
Prerequisites: grad st; Bus Adm 800(P) & 806(P), or cons instr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 810 Development of Web-Based Solutions
3 cr. Graduate.
Web development for eBusiness, web development tools and methodologies, web services, content management, developing database-driven web applications, mobile applications, and Web 2.0 technologies.
Prerequisites: grad st; Bus Adm 740(P)
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
BUS ADM 811 Process and Work-Flow Management
3 cr. Graduate.
Business process modeling and design, process optimization, inter/intra organization process integration, process re-engineering and continuous process improvement, process execution and process implementation using ERP.
Prerequisites: grad st; BusMgmt 732(P)
Current Offerings: http://uwm.edu/schedule

BUS ADM 812 Emerging Information Technologies for Business
3 cr. Graduate.
Introduction to novel information technologies; emphasis is on assessing viability, impact, and management of emerging technologies and their integration with traditional information technology.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

BUS ADM 813 Object-Oriented and Visual Paradigms
3 cr. Graduate.
Object-oriented/visual concepts and use in management applications; object-oriented/visual design and development methodologies/languages; prototyping; implementation in an appropriate environment.
Prerequisites: grad st; Bus Adm 740(P).
Last Taught: Fall 2009, Fall 2008, Fall 2007, Fall 2006.
Current Offerings: http://uwm.edu/schedule

BUS ADM 814 Enterprise Knowledge & Semantic Management
3 cr. Graduate.
Managing knowledge in business enterprises including acquisition, repository creation, dissemination; organizational learning, developing enterprise ontology, collaboration management and e-collaboration; developing intelligent agents and recommendation systems.
Prerequisites: grad st.
Last Taught: Fall 2016, Fall 2013, Spring 2012, Spring 2010.
Current Offerings: http://uwm.edu/schedule

BUS ADM 816 Business Intelligence Technologies & Solutions
3 cr. Graduate.
Develop business intelligence (BI) solutions using data warehousing, OLAP and data mining technologies. Students will use SAP Analytics and other tools for implementing BI solutions.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 817 Infrastructure for Information Systems
3 cr. Graduate.
Overview of computing and network technologies. Design and development of technology infrastructure for supporting modern information systems. Infrastructure management strategies, security, reliability, and performance considerations.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

BUS ADM 818 Information Systems Practicum
3 cr. Graduate.
Team project to build a working prototype system to address specific client need. This involves need assessment, market research, requirement specification, system design and building.
Prerequisites: grad st; Bus Adm 747(P); cons instr
Last Taught: Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 819 Information Technology Management Internship
3 cr. Graduate.
A defined work period addressing information systems in a corporate, government, or management consulting environment.
Prerequisites: grad st; writ cons instr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 820 Tax Research, Practice, and Procedure
3 cr. Graduate.
Methodology of federal tax research, including computerized research. Organization of and practice before the irs. Audits, deficiencies, assessment and collection. Preparer penalties. Ethical responsibilities.
Prerequisites: grad st; Bus Adm 405(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 821 Business Taxation
3 cr. Graduate.
Advanced business tax issues, including tax research, consolidated returns, corporate reorganizations, multistate and international taxation.
Prerequisites: grad st; Bus Adm 406(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 823 Corporate Income Taxation
3 cr. Graduate.
Tax issues associated with formation, operations, liquidation and reorganization of regular corporations. Introduction to consolidated returns.
Prerequisites: grad st; Bus Adm 406(P)
Current Offerings: http://uwm.edu/schedule

BUS ADM 825 Estate Planning
3 cr. Graduate.
Estate, gift and income tax issues associated with intra-family and charitable wealth transfers. Business succession planning.
Prerequisites: grad st; Bus Adm 406(P)
Current Offerings: http://uwm.edu/schedule

BUS ADM 826 Tax Planning for Individuals
3 cr. Graduate.
Advanced tax issues and planning opportunities for individuals. Introduction to the taxation of trusts and estates, as well as estate and gift tax issues.
Prerequisites: grad st; Bus Adm 406(P)
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
**BUS ADM 827 Taxes and Business Strategy**  
3 cr. Graduate.  
Comprehensive examination of tax planning issues associated with choice of entity, start-ups, purchase or sale of business, compensation, and financing options. Business succession planning.  
Prerequisites: grad st; Bus Adm 406(P)  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 828 Taxation of Partnerships, S Corporations, and LLCs**  
3 cr. Graduate.  
Tax issues associated with formation, operation, and dissolution of partnerships. Subchapter S corporations, and limited liability companies. Sale of ownership interests.  
Prerequisites: grad st; Bus Adm 406(P)  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 829 Executive Compensation and Benefits**  
3 cr. Graduate.  
Tax issues associated with different methods of compensating executives and other employees.  
Prerequisites: grad st; Bus Adm 406(P)  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 831 Multistate Income Taxation**  
3 cr. Graduate.  
State taxation of income derived by corporations, flow through entities, and individuals from interstate business and investment activity.  
Prerequisites: grad st.  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 832 Property Taxation**  
3 cr. Graduate.  
Basic and advanced topics in state and local property taxes, with an emphasis on issues commonly encountered by multistate businesses.  
Prerequisites: grad st; Bus Adm 406(P)  
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 834 International Taxation**  
3 cr. Graduate.  
U.S. taxation of income derived by corporations, flow-through entities, and individuals from both outbound and inbound business and investment activity.  
Prerequisites: grad st; Bus Adm 406(P)  
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 837 Sales and Use Taxation**  
3 cr. Graduate.  
Basic and advanced topics in state and local sales and use taxes, with an emphasis on the treatment of transactions commonly encountered by multistate businesses.  
Prerequisites: grad st.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 838 Managing State and Local Audits**  
3 cr. Graduate.  
Practical insights into managing the problems encountered in state and local income, sales and use, and property tax audits.  
Prerequisites: grad st.  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 840 Current Issues in Financial Reporting**  
3 cr. Graduate.  
Current topics of concern to accounting professionals such as derivatives, stock options, fair value accounting, international standards, intangible assets, SEC issues and foreign currency accounting.  
Prerequisites: grad st; Bus Adm 722(P) or 402(P)  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 841 Financial Statement Analysis**  
3 cr. Graduate.  
Prerequisites: grad st; Bus Adm 722 (C) or 402(P)  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 844 Auditing: Professional Standards and Practices**  
3 cr. Graduate.  
An in-depth study of the various professional standards that shape the audit process including those related to audit procedures, reporting responsibilities, and statistical sampling.  
Prerequisites: grad st; Bus Adm 409(P).  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 847 Topics in Accounting Theory**  
3 cr. Graduate.  
Analysis of contemporary accounting issues with emphasis on applications of accounting theory and the development of research and analytical skills. Extensive use of case studies. Specific topic and additional prerequisites may appear in the Timetable each semester.  
Prerequisites: grad st; Bus Adm 402(P), 403(P), & 404(P).  
Course Rules: Repeatable with change in topic to 6 cr max.  
Last Taught: Fall 2005, Fall 2004, Fall 2003, Fall 2002.  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BUS ADM 848 Professional Accounting Practice**  
3 cr. Graduate.  
In-depth analysis of audit, taxation, and advisory services to clients including legal and ethical issues in the practice of a CPA. Includes professional exam preparation.  
Prerequisites: grad st; Bus Adm 724(P); Bus Adm 753(C), 840(C), 728(C), or 844(C)  
Course Rules: Course to be taken the semester of graduation.  
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)
BUS ADM 849 Accounting Internship
1-3 cr. Graduate.
A defined work period in an accounting firm, corporation, or governmental agency.
Prerequisites: grad st; writ cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 851 Global Investments
3 cr. Graduate.
Introduce market structure, institutions, regulations, instruments, and innovations in global investments. Focus on management of foreign currency risk and performance of global investment portfolios.
Prerequisites: grad st; Bus Adm 771(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 852 Venture Finance
3 cr. Graduate.
Examine private equity industry, venture and buyout fund. Focus on the interaction of major parties, general partners, limited partners and portfolio firms.
Prerequisites: grad st; Bus Adm 705(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 853 Financial Modeling
3 cr. Graduate.
Development and advanced application of computer-based financial models including pricing of exotic derivative securities.
Prerequisites: grad st; Bus Adm 771(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

BUS ADM 894 Internet Marketing
3 cr. Graduate.
Introduction to the principles of internet marketing, types of products that can be marketed online, communication strategies, selling strategies, and pricing strategies.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUS ADM 895 Strategic Marketing Issues in eBusiness
3 cr. Graduate.
Online branding, internet pricing and promotion strategy, managing channel conflict, online competitive strategy, synergies between traditional and online operations, and other topical issues.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

BUS ADM 899 Management Research Project/Thesis
1-6 cr. Graduate.
Original analysis of a management problem. Involves the application of the elements of scientific inquiry in the context of a contemporary problem.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BUS ADM 900 Doctoral Orientation to Teaching and Research
1 cr. Graduate.
Introduces doctoral students to academic careers and research management. Focuses on research approaches, research management in private and public organizations, and teaching responsibilities in higher education.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUS ADM 914 Advanced Multivariate Techniques in Management Research
3 cr. Graduate.
Analysis of management problems using multivariate methods including logistic regression, structural equations, scale reliability measures, simultaneous inference, observational study corrections, and multidimensional scaling.
Prerequisites: grad st; Bus Adm 714(P) and 754(P).
Current Offerings: http://uwm.edu/schedule

BUS ADM 916 Advanced Operations Research Models
3 cr. Graduate.
Formulation and solution of operations research models with emphasis on models having a probabilistic structure.
Prerequisites: grad st; Bus Adm 754(P) or cons of instr.
Current Offerings: http://uwm.edu/schedule

BUS ADM 918 Doctoral Seminar in Behavioral Research Methods in Management
3 cr. Graduate.
Selected advanced topics in behavioral research methods.
Prerequisites: grad st; Bus Adm 709 or 754.
Current Offerings: http://uwm.edu/schedule

BUS ADM 980 Accounting Doctoral Seminar I:
3 cr. Graduate.
Selected topics focusing on accounting research. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakeable w/ chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
**BUS ADM 981 Accounting Doctoral Seminar II:**
3 cr. Graduate.
Selected advanced topics focusing on theoretical foundations of accounting and empirical testing of such theories. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
**Prerequisites:** grad st.
**Course Rules:** Retakeable w/ chg in topic to 9 cr max.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 983 Supply Chain and Operations Management Doctoral Seminar I:**
3 cr. Graduate.
Selected topics focusing on supply chain and operations management. Includes analysis of key research, develop abilities related to research ideas, and execute empirical or analytical study to develop full research paper.
**Prerequisites:** grad st.
**Course Rules:** Retakeable with change in topic to max of 9 cr.
**Last Taught:** Fall 2014.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 984 Finance Doctoral Seminar I:**
3 cr. Graduate.
Selected topics focusing on theoretical foundations of corporate finance and investments, and on testing such theories. Topics & prerequisites announced each time course is offered.
**Prerequisites:** grad st.
**Course Rules:** Retakeable with change in topic to max of 9 cr.
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 990 Doctoral Seminar in Strategic Management:**
3 cr. Graduate.
Selected advanced topics in strategic management. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
**Prerequisites:** grad st.
**Course Rules:** May be repeated w/ chg in topic to a 9 cr max.
**Last Taught:** Spring 2016, Fall 2015, Fall 2011, Spring 2010.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 991 MIS Doctoral Seminar II:**
3 cr. Graduate.
Selected advanced topics in management information systems. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
**Prerequisites:** grad st.
**Course Rules:** May be repeated w/ chg in topic to a 9 cr max.
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 992 Doctoral Seminar in Marketing:**
3 cr. Graduate.
Selected advanced topics in marketing. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
**Prerequisites:** grad st.
**Course Rules:** Retakeable with change in topic to 12 cr max.
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Spring 2016.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 993 Supply Chain & Operations Management Doctoral Seminar II**
3 cr. Graduate.
Selected advanced topics in supply chain and operations management. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
**Prerequisites:** grad st
**Course Rules:** Retakeable with change in topic to 9 cr max.
**Last Taught:** Spring 2018, Fall 2017, Fall 2016, Fall 2015.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 994 Finance Doctoral Seminar II:**
3 cr. Graduate.
Selected advanced topics in finance. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
**Prerequisites:** grad st.
**Course Rules:** Retakeable with change in topic to max of 9 cr.
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 995 Doctoral Seminar in Decision Sciences:**
3 cr. Graduate.
Selected advanced topics in multi-disciplinary and methodological issues in management science. Specific topics and any additional prerqs will be announced in the schedule of classes each time the course is offered.
**Prerequisites:** grad st; Bus Adm 709 or 754.
**Course Rules:** Retakeable with change in topic to max of 9 cr.
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 996 Doctoral Seminar in Organizations:**
3 cr. Graduate.
Selected advanced topics in organizations. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
**Prerequisites:** grad st.
**Course Rules:** Retakeable with change in topic to 9 cr max.
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Spring 2015.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 997 Doctoral Dissertation**
1-12 cr. Graduate.
**Prerequisites:** dissertator st; cons instr.
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 998 MIS Doctoral Seminar I:**
3 cr. Graduate.
Selected advanced topics in management information systems. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
**Prerequisites:** grad st.
**Course Rules:** Retakeable w/ chg in topic to 9 cr max.
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.
**Current Offerings:** http://uwm.edu/schedule

**BUS ADM 999 Independent Work**
1-3 cr. Graduate.
**Prerequisites:** grad st; cons instr.
**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2016.
**Current Offerings:** http://uwm.edu/schedule
Business Management Courses

BUSMGMT 704 Accounting Analysis and Control
3 cr. Graduate.
Prepares managers to critically analyze, interpret and use financial statements, cost reports, and other financial information provided by accountants and accounting systems.
Prerequisites: grad st & Bus Adm 703(P).
Current Offerings: http://uwm.edu/schedule

BUSMGMT 705 Corporate Finance
3 cr. Graduate.
Analysis of corporate financial decision-making including security valuation, cash flow estimation, capital budgeting, financial planning, capital structure, dividend policy, and international financial management.
Prerequisites: grad st & Bus Adm 703(P), BusMgmt 709(C).
Current Offerings: http://uwm.edu/schedule

BUSMGMT 706 Managing in a Dynamic Environment
3 cr. Graduate.
Provides frameworks and techniques for managing people and improving organizations. Topics include group dynamics, leadership, performance management, structure, innovation, power, change, and corporate cultures.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

BUSMGMT 707 Information Technology Management in International Businesses
3 cr. Graduate.
Management of information technology including the role of enterprise systems, business intelligence, mining, & analytics; virtual teams and offshoring; security; and ethical/privacy issues including sustainability and green IT in the globally connected world.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

BUSMGMT 708 Marketing Strategy: Concepts and Practice
3 cr. Graduate.
Builds key concepts in marketing strategy, develops knowledge of current issues and provides hands-on experience in developing and executing marketing strategies for today's managers.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

BUSMGMT 709 Predictive Analytics for Managers
3 cr. Graduate.
Developing statistical thinking through basic concepts for data analysis. Models for analysis of business environment, software tools, interpretation and communication of results for management applications.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

BUSMGMT 711 Global Supply Chain Strategies & Competitive Operations
3 cr. Graduate.
Integration and synchronization of the logistics, IT, operations, and sourcing functions. Emphasis on fundamental supply chain strategies, global supply chain design, tactics for supply chain process improvement and competitive advantage.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

BUSMGMT 712 Strategic Management
3 cr. Graduate.
Integrative course focused on strategic thinking and decision making at the general management level. Implementing business planning and strategy in a field-based interdisciplinary action project.
Prerequisites: admis to MBA Program and BusMgmt 704(P), 705(P), 706(P), 707(P), 708(P), 709(P), & 711(P); one prereq course may be completed concurrently with BusMgmt 712.
Course Rules: Not open for credit for students who have completed BusMgmt 720.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 713 Entrepreneurship: Venture Creation and Management
3 cr. Graduate.
Study of creation, growth or acquisition of a business through entrepreneurial efforts. Process of identifying and quantifying opportunities, then conceptualizing, planning and starting a new enterprise.
Prerequisites: grad st; Bus Adm 703(P) & BusMgmt 708(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 714 Managing People and the Role of General Managers
3 cr. Graduate.
Provides framework for understanding organizational behavior and roles of general managers, as distinct from functional specialists. Develops managerial skills through cases, exercises, and industry projects.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 715 Leadership, Team Building, and Effective Management
3 cr. Graduate.
Provides a working knowledge of team building, managing change, and effective business communication methods, and an understanding of leadership tools.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

BUSMGMT 716 International Business Management
3 cr. Graduate.
Theories and research pertaining to international business, including foreign investment, marketing, personnel, strategy development, and control of multinational operations.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule
BUSMGMT 718 Concepts and Practice of Nonprofit Management
3 cr. Graduate.
Characteristics and formation of nonprofit organizations; building effective boards of directors; board roles and responsibilities; conflicts of interest; evaluating nonprofit performance; grant writing, foundations, and fund-raising.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 720 Strategic Management in Health Care Organizations
3 cr. Graduate.
Application of strategic management tools and techniques to health care organizations. Analyzing external, competitive, and internal environment; developing objectives; understanding current strategy; formulating and implementing future directions.
Prerequisites: grad st; Bus Adm 757(P); BusMgmt 708(P) or Bus Adm 766(P); BusMgmt 704(P), 705(P), 706(P), 707(P), & 711(P).
Course Rules: Not open for credit for students who have completed BusMgmt 712.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 721 Fundraising and Development for Nonprofit Organizations
3 cr. Graduate.
Philosophical thoughts on development; basics of fundraising; strategic planning and implementation.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 722 Global Information Technology Management
3 cr. Graduate.
Management issues surrounding the effective deployment of IT and in different regions of the world.
Prerequisites: grad st.
Last Taught: Summer 2013, Summer 2012.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 723 Managing and Negotiating Across Cultures
3 cr. Graduate.
Role of culture in international management, including organization, strategy, human resource management, leadership, teams, business ethics, and negotiations.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 724 Accounting for Nonprofit Organizations
3 cr. Graduate.
Financial and managerial accounting topics for the nonprofit sector; relationship of these topics to finance, the legal environment of nonprofits, and mission of the organizations.
Prerequisites: Grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 726 Study Abroad: Business Topics:
1-3 cr. Graduate.
Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries.
Prerequisites: grad st & acceptance for Study Abroad Prog.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 727 Health Care Accounting, Law and Ethics
3 cr. Graduate.
Critical examination of healthcare specific issues and differences from other industries: financial and accounting practice; legal requirements and constraints; ethical issues facing healthcare managers.
Prerequisites: grad st.
Course Rules: Counts as repeat of Bus Adm 443 with similar subtitle.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 728 Training and Development in Organizations
3 cr. Graduate.
Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.
Prerequisites: grad st.
Course Rules: Counts as repeat of Bus Adm 443 with similar subtitle.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 729 MBA Internship
3 cr. Graduate.
A defined work experience with a for-profit, non-profit, international, or government organization, applying previous coursework to a workplace setting. Project paper required.
Prerequisites: grad st; completion of any 12 cr (4 courses) from MBA Core (BusMgmt 704-711); Masters GPA of 3.50 or better; writ cons of instr.
Last Taught: Fall 2016, Summer 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

BUSMGMT 730 Strategic Management and Leadership for Nonprofit Organizations
3 cr. Graduate.
Concepts and methods of strategic thinking and applications of strategy in nonprofit organizational settings. Nonprofit governance and executive leadership roles in strategy formation and implementation.
Prerequisites: grad st; BusMgmt 718(P) or Pol Sci 789(P) or Pol Sci/Sociol/Urb Std 704(P); BusMgmt 721(P), 724(P), & 725(P); Bus Adm 766(P) or Pol Sci 705(P) or Pol Sci 791(P); Pol Sci 792(P) & 793(P)
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
BUSMGMT 731 Research Tools for Practitioners in Human Resources and Labor Relations  
3 cr. Graduate.  
Planning and carrying out simple surveys; evaluating policies, programs, and procedures in organizations; interpreting, evaluating and using research conducted by others.  
Prerequisites: grad st; Econ 210(P) or Bus Adm 210(P) or cons instr.  
Course Rules: Ind Rel 731 and BusMgmt 731 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 732 Enterprise Resource Planning  
3 cr. Graduate.  
Enterprise Resource Planning concepts, fundamental business processes, interaction of various functional areas, development tools for the implementation of web-based ERP applications.  
Prerequisites: grad st  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 733 Enterprise Simulation Game  
3 cr. Graduate.  
Use ERP simulation game, develop understanding of ERP concepts, experience benefits of ERP develop technical skills using ERP software.  
Prerequisites: grad st  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 734 Enterprise Resource Planning Certification  
3 cr. Graduate.  
Understand interdependencies and integration of key business processes and power of technology-enabled ERP system to increase productivity and improve business performance. Includes TERP 10 certification exam preparation.  
Prerequisites: grad st; Bus Adm 811(P)  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 735 Advanced Spreadsheet Tools  
1 cr. Graduate.  
Covers advanced spreadsheet decision making tools. Business problems from across the enterprise will be solved using EXCEL functions, pivot tables, scenario evaluation and others.  
Prerequisites: grad st; Bus Adm 701(C).  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 736 Understanding and Using Corporate Financial Reports  
2 cr. Graduate.  
Introduces corporate financial reporting practices, accounting terminology, and disclosure concepts. Develops skills in reading and analyzing annual reports. Emphasizes the impact of alternative accounting practices.  
Prerequisites: grad st; Bus Adm 701(C).  
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 737 Business Strategy and Economics  
2 cr. Graduate.  
Economics analysis of applied problems in business. Includes behavioral economics, game theory, pricing in oligopolies, monopolies, price discrimination, and the psychology of pricing.  
Prerequisites: grad st; Bus Adm 701(C).  
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 738 Critical and Analytical Thinking in Business  
2 cr. Graduate.  
Provides training, practice, and feedback in the construction, presentation, and evaluation of clear, well-reasoned arguments. Interactive sessions and structured assignments highlight business applications.  
Prerequisites: grad st; Bus Adm 701(C).  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 741 Management of Technology Ventures  
3 cr. Graduate.  
Development, launch, and management of technology ventures including venture growth management. Prepares students to lead and manage technology ventures.  
Prerequisites: grad st & admis to business or engineering program or admis to Tech Entrep Cert program.  
Last Taught: Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 742 Technology Innovation and Corporate Entrepreneurship  
3 cr. Graduate.  
Advanced concepts related to technology management, technological innovation, technology strategy, and corporate entrepreneurship. Prepares students to lead technology commercialization projects.  
Prerequisites: grad st & admis to business or engineering program or admis to Tech Enrep Cert program.  
Last Taught: Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 743 Technology Entrepreneurship Project  
3 cr. Graduate.  
Integration of key product/service innovation, commercialization, and entrepreneurship processes in the establishment of new (or corporate) technology ventures; trains students to lead new ventures.  
Prerequisites: grad st & admis to business or engineering program or admis to Tech Entrep Cert program; BusMgmt 741(P).  
Current Offerings: http://uwm.edu/schedule

BUSMGMT 744 R Programming for Business Analytics  
3 cr. Graduate.  
Focus on basic data manipulation and statistical modeling in R. The objective is to develop R programming skills to investigate different types of business data to inform business decisions.  
Prerequisites: grad st; BusMgmt 709(P).  
Last Taught: Spring 2018.  
Current Offerings: http://uwm.edu/schedule
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**Contact Information**

**Student Services Center**  
Lubar Hall, N297

**Phone:** (414) 229-5271

http://uwm.edu/business/
BUSINESS OF MEDIA AND FILM STUDIES, UNDERGRADUATE CERTIFICATE (LUBAR SCHOOL OF BUSINESS)

The Certificate Program in Business of Media and Film Studies (BMFS) prepares students to be successful in their post-college careers by uniting the study of Business with the study of a popular, accessible, and pertinent area within the Humanities, Film Studies. Business students will have more sustained study in humanistic inquiry, both of their own field and of the diverse world that the Humanities investigates. Letters and Science students will have access to professional school curricula to help them be better equipped to enter a workforce that demands flexibility and a diversity of knowledge and experience.

The certificate in BMFS includes coursework engaging the financial and industry practices and structures in film and television. It is an interdisciplinary academic program consisting of an introductory course in Film or Television Studies, introductory courses in Business Administration (accounting, management, and marketing), an intermediate level Film Studies course focused on history and representational analysis, and a set of electives from Business Administration and Film Studies.

Eligibility

The program is open to all students seeking a bachelor’s degree from UWM, to students who previously earned a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Students currently involved in baccalaureate studies at UWM who successfully complete the requirements of the certificate program will be awarded the certificate at the time of graduation. Other students will receive the certificate upon completion of the program requirements.

Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.50, a minimum of 18 credits in approved BMFS courses as indicated below, 15 of which must be earned in residence at UWM. Of these 15 residence credits, 9 must be taken at the 300 level or above. Nine credits must be taken in the College of Letters and Science, and nine credits must be taken in the Lubar School of Business. Courses for the certificate may not be taken on a credit/no credit basis.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee (BMFSAC). Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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ACCOUNTING, BBA

Accountants gather, organize and analyze financial information. Accountants assess performance and efficiency and suggest improvements for their employers and clients. They are needed in Certified Public Accounting (CPA) firms and corporations, as well as nonprofit organizations. Advancements in technology, evolving accounting rules and regulations, and rapid globalization promise abundant and interesting career opportunities to those with strong quantitative abilities.

Accounting graduates who take positions in public accounting firms provide management consulting, tax, and audit services to external clients. Other accounting graduates, who take positions with industry and not-for-profit organizations, work as part of the management team providing information for decision support, taxation issues and performance evaluation.

Lubar School of Business accounting programs are separately accredited by the AACSB (one of only three accounting accredited schools in Wisconsin). Graduates meet the legal requirements to take the CPA Exam in Wisconsin. However, 150 credits of education are required to obtain the CPA license in Wisconsin. Many BBA Accounting graduates apply, are accepted, and enroll in the Lubar School of Business Master of Science in Management-Professional Accounting (MS-PA) program to complete the credits to prepare for the CPA exam and meet the 150 credits for licensure.

Requirements

Students admitted to a Business major Fall 2012 and after

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<td>General Education Requirements (p. 357)</td>
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<td>Business Foundation Courses (p. 357)</td>
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<td>Business Core (p. 358)</td>
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Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

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<td>Satisfy Oral and Written Communication requirement (Part A)</td>
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<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>Or place high enough on the English Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or place high enough on the Math Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Business Foundation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With a cumulative GPA of 2.25 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Advancement to the Major form</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Available in the Undergraduate Student Services office or online

Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>UWM Foreign Language Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

3 Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.

4 Excluding MATH 211, MATH 221, or MATH 231.

Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting (or equivalent)</td>
<td>4</td>
</tr>
</tbody>
</table>
BUS ADM 230  Introduction to Information Technology Management 3
MATH 211  Survey in Calculus and Analytic Geometry (or equivalent) 4
COMMUN 103  Public Speaking 3
or COMMUN 105  Business and Professional Communication 3

Total Credits 20

1 A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 372) should enroll in the equivalent BUS ADM 207 course.
2 A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 372) should consider the equivalent BUS ADM 231 course.

Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics</td>
<td>4</td>
</tr>
<tr>
<td>or BUS ADM 211</td>
<td>Business Scholars: Introduction to Management Statistics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 331</td>
<td>Business Scholars: Organizations</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td></td>
</tr>
<tr>
<td>or BUS ADM 351</td>
<td>Business Scholars: Principles of Finance</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 380</td>
<td>Introduction to Real Estate Markets</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 451</td>
<td>Investment Finance</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td></td>
</tr>
<tr>
<td>or BUS ADM 361</td>
<td>Business Scholars: Principles of Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td></td>
</tr>
<tr>
<td>or BUS ADM 371</td>
<td>Business Scholars: Introduction to Supply Chain Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance</td>
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</tr>
<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
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</tr>
</tbody>
</table>

International Business Component

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology</td>
<td></td>
</tr>
<tr>
<td>Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 541</td>
<td>Cross-Cultural Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 28

1 BUS ADM 451 cannot be used to substitute for BUS ADM 350 if a student is also completing the Finance major.

Accounting Major Requirements

A minimum 3.0 cumulative GPA, completion of MATH 211, BUS ADM 230 or BUS ADM 231, and a grade of B or better in BUS ADM 201 or BUS ADM 207 are required to enroll in BUS ADM 301. A grade of B or better in BUS ADM 301 is required to enroll in BUS ADM 402, BUS ADM 404, and BUS ADM 409.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 300</td>
<td>Career and Professional Development:</td>
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</tr>
<tr>
<td>BUS ADM 301</td>
<td>Intermediate Accounting</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 402</td>
<td>Advanced Financial Accounting</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 404</td>
<td>Cost Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 405</td>
<td>Income Tax Accounting I</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 406</td>
<td>Income Tax Accounting II</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 408</td>
<td>Accounting Information Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 409</td>
<td>Auditing: Procedures and Applications</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 410</td>
<td>Accountants' Ethical Responsibilities</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits 24

1 Part-time students who are employed on a full-time basis may substitute BUS ADM 403 for BUS ADM 300 and BUS ADM 410 with the approval of assigned Lubar academic advisor.
2 Students who have completed BUS ADM 404 will not be allowed to complete BUS ADM 302 for credit.

Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 9 credits in the Lubar School of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 9

General Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Foreign Language credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 300</td>
<td>Career and Professional Development:</td>
<td>18</td>
</tr>
</tbody>
</table>

Total Credits 18

Degree Completion Requirements

Credits

A minimum of 123 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.
Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelor's degree only. Requirements of a second undergraduate degree are listed on the Lubar School's Policies and Regulations (p. 328). The Accounting major may not be completed as a second undergraduate degree.

Double Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising) All students should meet with an academic advisor at least once a semester.

Career Services

The Lubar School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

Honors in the Lubar School of Business

Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 372).

Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
BUsiness administration, MBA

The Lubar School of Business Master of Business Administration (MBA) provides the specialized business skills needed to meet an individual’s career goals. Lubar offers a metropolitan professional laboratory where dynamic individuals, applied project work, and superb business connections translate into a rewarding life-long career.

Faculty are connected to leading-edge business knowledge using real-world business challenges. There is an emphasis on critical and analytical thinking, collaboration with fellow students, and networking with successful executives and professional inside and outside the classroom.

Lubar School of Business offers a full array of MBA programs to meet professional needs:

• MBA-Flexible Format with the opportunity to specialize in one of six Career-Focused Concentrations (Business Analytics, (p. 365) Entrepreneurship (p. 366), Finance (p. 367), Health Care Management (p. 368), Marketing (p. 369), and Supply Chain Management (p. 370)).

• MBA-Co20 providing the opportunity to fast-track MBA program completion in a 20-month cohort option.

• Executive MBA aimed at seasoned managers who will leverage their professional experience while broadening management knowledge in a cohort experience. The program includes collaborative technologies, advanced management research, applied learning projects, and an international trip.

Admission Requirements

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).

2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>18-24</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select 15 elective credits

Total Credits

33-39

1. Integrating course
2. Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

Program Requirements

Major Professor as Advisor

The student in the MBA program is not assigned an advisor or major professor. Questions about the student’s program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.
BUSINESS ADMINISTRATION, MBA/NURSING, DNP

The Lubar School of Business and the University of Wisconsin-Milwaukee College of Nursing collaboratively offer a program designed to provide a combined nursing and business curriculum to strengthen the graduate's performance as a leader and manager in nursing and health care administration.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students are admitted to both the University of Wisconsin-Milwaukee graduate programs in nursing and business administration. The admission requirements are consistent with those specified by the UWM Graduate School, College of Nursing and Lubar School of Business. Applicants may choose to complete either the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre) and must have a BS in Nursing degree and at least two years practice in a health care setting. Three letters of reference are required including one from a former faculty and one from a health care employer.

Credits and Courses

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires Bus Adm 701, Business Mathematics (2 cr), and Bus Adm 703, Financial Accounting (3 cr). Bus Adm 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre) and must have a BS in Nursing degree and at least two years practice in a health care setting. Three letters of reference are required including one from a former faculty and one from a health care employer.

For the coordinated degree program, students will complete 83 degree credit hours. Students accepted into the MBA/DNP program complete the following courses (each is 3 credits, unless otherwise indicated):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare</td>
<td>47</td>
</tr>
<tr>
<td>NURS 726</td>
<td>Epidemiological Principles for Population Health</td>
<td></td>
</tr>
<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
<td></td>
</tr>
<tr>
<td>NURS 735</td>
<td>Theory for Advanced Practice</td>
<td></td>
</tr>
<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
<td></td>
</tr>
<tr>
<td>NURS 770</td>
<td>Nursing Administration</td>
<td></td>
</tr>
<tr>
<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
<td></td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td></td>
</tr>
<tr>
<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
<td></td>
</tr>
<tr>
<td>NURS 826</td>
<td>Nurse Executive Practicum I</td>
<td></td>
</tr>
<tr>
<td>NURS 827</td>
<td>Nurse Executive Practicum II</td>
<td></td>
</tr>
<tr>
<td>NURS 828</td>
<td>Nurse Executive Practicum III</td>
<td></td>
</tr>
<tr>
<td>NURS 993</td>
<td>DNP Project I: Plan</td>
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<tr>
<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
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<tr>
<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion,Doctor of Nursing Practice Residency</td>
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</tbody>
</table>

Business Core 18

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
</tbody>
</table>

Dually Applied 18

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 733</td>
<td>Organizational Development</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 720</td>
<td>Strategic Management in Health Care Organizations</td>
<td></td>
</tr>
</tbody>
</table>

Constrained Choice (6 credits)

Choose two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 755</td>
<td>Health Care Administration and Delivery Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 757</td>
<td>Managed Care and Integrated Health Networks</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 759</td>
<td>Seminar in Health Care Management: (Subtitle: Health Economics)</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 759</td>
<td>Seminar in Health Care Management: (Subtitle: Healthcare Finance)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 83

Program Requirements

A student not completing the requirements for the coordinated degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree. Students must fulfill the MBA Program Boot Camp and Executive Development activities to meet all graduation requirements.
DNP Clinical Project
The candidate will complete a final comprehensive DNP project as part of the residency experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

Time Limit
Students in the coordinated MBA/DNP degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
BUSINESS ADMINISTRATION, MBA/INFORMATION TECHNOLOGY MANAGEMENT, MS

For practitioners seeking to blend the depth and rigor of the STEM-designated MS in ITM curriculum with the managerial skills developed in a traditional MBA, Lubar School of Business offers the combined MBA-MS in ITM degree. This comprehensive program positions graduates for leadership advancement within organizations through an extensive IT and general management curriculum.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Credits and Courses

MBA Foundation Coursework
MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT or GRE, or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

ITM Foundation Courses
Students admitted to the MS in ITM program are expected to have knowledge or experience in programming.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management</td>
<td></td>
</tr>
</tbody>
</table>

Required MBA Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Total Credits: 48-51

1. Students with a BBA degree and a major in accounting, finance, marketing, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study.
2. Integrating course.
BUSINESS ADMINISTRATION, MBA/LANGUAGE, LITERATURE, AND TRANSLATION, MA

The College of Letters and Science and Lubar School of Business collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving language services industry theory and practices, and to provide high level management and administrative skills needed to work in business, industry, governmental, and nonprofit organizations.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Master of Arts in Language, Literature, and Translation (MALLT), Translation Professional Track in the College of Letters and Science, and the MBA program of the Lubar School of Business.

Credit and Courses

The total credits for the Coordinated MALLT/MBA program is 54. Students accepted into the MALLT/MBA program complete the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 70x</td>
<td>Introduction to Translation Workshop</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(language-specific)</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 71x</td>
<td>Advanced Translation Workshop</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(language-specific)</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Translation (language-specific)</td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation</td>
<td>3</td>
</tr>
<tr>
<td>or BUSMGMT 729</td>
<td>MBA Internship</td>
<td></td>
</tr>
<tr>
<td>Comprehensive Exam</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

| Electives | Select 9 shared credits in consultation with faculty advisors from among all approved TRNSLTN or MBA elective courses | 9       |

Total Credits 30

Master of Business Administration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management (capstone)</td>
<td>3</td>
</tr>
</tbody>
</table>

| Electives | Select 9 shared credits in consultation with faculty advisors from among all approved TRNSLTN or MBA elective courses | 9       |

Total MBA credits: 24 + 9 shared

Program Requirements

The 54 credits for the coordinated program typically would be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program to receive a degree.

Time Limit
Students in the coordinated MALLT/MBA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
BUSINESS ADMINISTRATION
MBA: BUSINESS ANALYTICS

Designed especially for students who need scheduling options, the Lubar School's Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

Students complete the Business Analytics concentration courses online, while having the option to complete the remaining MBA course requirements face-to-face or online.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses
The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>18-24</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management ¹</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**
Select 15 elective credits² 15

Total Credits 33-39

¹ Integrating course
² Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

Business Analytics Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 713</td>
<td>Business Forecasting Methods</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 763</td>
<td>Marketing Analytics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 769</td>
<td>Database Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 744</td>
<td>R Programming for Business Analytics *</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 718</td>
<td>Introduction to SAS Programming *</td>
<td></td>
</tr>
</tbody>
</table>

* Student may complete no more than one programming course.

Program Requirements

Major Professor as Advisor
The student in the MBA program is not assigned an advisor or major professor. Questions about the student’s program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.
BUSINESS ADMINISTRATION
MBA: ENTREPRENEURSHIP

Designed especially for students who need scheduling options, the Lubar School's Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>18-24</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
</tbody>
</table>

Entrepreneurship Concentration

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 546</td>
<td>Global Innovation Management</td>
<td>6</td>
</tr>
<tr>
<td>BUSMGMT 713</td>
<td>Entrepreneurship: Venture Creation and Management</td>
<td></td>
</tr>
</tbody>
</table>

Electives - Choose three courses from the list below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 544</td>
<td>New Product Development</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 762</td>
<td>Marketing Research</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 765</td>
<td>Strategic Product and Brand Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 799</td>
<td>Reading and Research</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 852</td>
<td>Venture Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 715</td>
<td>Leadership, Team Building, and Effective Management</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 729</td>
<td>MBA Internship</td>
<td></td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor
The student in the MBA program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.
BUSINESS ADMINISTRATION
MBA: FINANCE

Designed especially for students who need scheduling options, the Lubar School’s Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>12</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td>12</td>
</tr>
</tbody>
</table>

Electives

Select 15 elective credits 2

Total Credits 33-39

1. Integrating course
2. Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

Finance Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 771</td>
<td>Investments</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 772</td>
<td>Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 775</td>
<td>Financial Strategy</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 777</td>
<td>Financial Institutions and Markets</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 774</td>
<td>Global Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 779</td>
<td>Fixed Income Securities</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor
The student in the MBA program is not assigned an advisor or major professor. Questions about the student’s program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.
BUSINESS ADMINISTRATION
MBA: HEALTH CARE MANAGEMENT

Designed especially for students who need scheduling options, the Lubar School's Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>18-24</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy. Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 15 elective credits

Total Credits 33-39

1. Integrating course
2. Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

Health Care Management Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 755</td>
<td>Health Care Administration and Delivery Systems</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 757</td>
<td>Managed Care and Integrated Health Networks</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 720</td>
<td>Strategic Management in Health Care Organizations</td>
<td>1</td>
</tr>
<tr>
<td>BUSMGMT 727</td>
<td>Health Care Accounting, Law and Ethics</td>
<td></td>
</tr>
</tbody>
</table>

1. Health Care Management students are required to complete BUSMGMT 720 in lieu of BUSMGMT 712 as the capstone course for the MBA program. An additional 3 elective credits will replace BUSMGMT 712.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 759</td>
<td>Seminar in Health Care Management:</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 715</td>
<td>Leadership, Team Building, and Effective Management</td>
<td></td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor
The student in the MBA program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.
BUSINESS ADMINISTRATION
MBA: MARKETING

Designed especially for students who need scheduling options, the Lubar School's Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

Credits and Courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>18-24</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
</tbody>
</table>

| Electives
| Select 15 elective credits 2 |
|-----------------------------|-----------------------------|
| Total Credits               | 33-39                       |

1 Integrating course
2 Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

Marketing Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 762</td>
<td>Marketing Research</td>
<td>9</td>
</tr>
<tr>
<td>BUS ADM 765</td>
<td>Strategic Product and Brand Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 894</td>
<td>Internet Marketing</td>
<td></td>
</tr>
</tbody>
</table>

| Electives – Choose two courses from the list below: |
|-----------------------------|-----------------------------|
| Total Credits               | 6                           |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 544</td>
<td>New Product Development</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 761</td>
<td>Seminar in Marketing:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 763</td>
<td>Marketing Analytics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 764</td>
<td>Buyer Behavior and Marketing Communications</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 769</td>
<td>Database Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 806</td>
<td>International Marketing</td>
<td></td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor
The student in the MBA program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.
BUSINESS ADMINISTRATION
MBA: SUPPLY CHAIN MANAGEMENT

Designed especially for students who need scheduling options, the Lubar School's Flexible Format MBA can accommodate career and personal priorities.

MBA students following the Flexible format may choose one of the career-focused concentrations to enhance their program. Each concentration requires the completion of fifteen elective credits, and the concentration will be noted on the transcript upon graduation.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

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Credits and Courses

The degree requirements for the Master of Business Administration degree are 33-39 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study. Students with an undergraduate double major in business, from an AACSB accredited institution, may be waived from two Core courses.

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</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 15 elective credits ² 15

Total Credits 33-39

¹ Integrating course
² Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Concentration, completion of which will be documented on the transcript.

See http://uwm.edu/business/academics/graduate/mba-programs/flexible-mba/ for additional details.

Supply Chain Management Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 781</td>
<td>Enabling Supply Chains Using SAP</td>
<td>15</td>
</tr>
<tr>
<td>BUS ADM 782</td>
<td>Supply Chain Technology and Simulation</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 783</td>
<td>Supply Chain Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 785</td>
<td>Project Management and Innovative Operations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 786</td>
<td>Supply Chain Logistics Management</td>
<td></td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor
The student in the MBA program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to Lubar School Graduate Program Services Office, Lubar N251, (414) 229-5403.
BUSINESS ANALYTICS, GRADUATE CERTIFICATE

The Online Graduate Certificate in Business Analytics is designed for students who desire a sequence of graduate-level courses that focus specifically on Business Analytics and that are delivered through an online instructional environment.

Business analytics - the management, analysis, and utilization of data in strategic, operational, and tactical decision making - is increasingly critical as businesses around the world seek out new areas of competitive advantage. In recent years, CIOs have identified analytics and business intelligence as top priorities for the competitiveness of their enterprises.

Lubar School of Business faculty use a vast array of business analytics software tools - including Business Objects, Excel Data Mining Client, Python, R, SAP BW, SAS, SPSS, SQL Server BI Development Studio - and other outstanding technologies and resources to deliver this program online to a worldwide audience. The curriculum includes predictive modeling, forecasting methods, data warehousing and data mining, web mining and analytics, marketing analytics, and customer relationship management.

Students who complete this certificate will gain a substantial competitive edge in pursuing a career as a business analytics manager, business intelligence consultant, business analytics systems analyst, business analytics solution architect, business intelligence specialist, business intelligence analyst, business intelligence developer, BI & reporting manager, data mining/reporting analyst, marketing analytics consultant, or online marketing analytics manager.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Business Analytics. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor’s degree with an overall GPA of 2.75 or better.

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

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four courses from the list below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 713</td>
<td>Business Forecasting Methods</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
</tr>
<tr>
<td>BUS ADM 763</td>
<td>Marketing Analytics</td>
</tr>
<tr>
<td>BUS ADM 769</td>
<td>Database Marketing</td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
</tr>
</tbody>
</table>

Total Credits: 15

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

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

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

The Business Scholars Program allows outstanding business students to build a rich portfolio of academic, extracurricular, and professional achievements. Students will build strong business competencies as well as enhanced communication and quantitative skills. International study is encouraged through the use of two-week study abroad opportunities.

Eligibility
To be admitted to the Business Scholars Program, the following requirements must be met:

1. A student must complete 24 credits with an overall cumulative grade point average of 3.3 (on a 4.0 scale), including completion of MATH 211 (or equivalent) with a grade of B or better, completion of ENGLISH 101 and ENGLISH 102 with a grade of B or better (or attainment of placement score of 525 or higher), and completion of ECON 103 with a grade of B or better; and
2. A student must submit an application that includes a one-page essay. The application is available in Undergraduate Student Services (LUB N297).

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 207</td>
<td>Business Scholars: Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 211</td>
<td>Business Scholars: Introduction to Management Statistics</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 231</td>
<td>Business Scholars: Introduction to Information Technology Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Core
Select two of the following: [6 credits]

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 331</td>
<td>Business Scholars: Organizations</td>
</tr>
<tr>
<td>BUS ADM 351</td>
<td>Business Scholars: Principles of Finance</td>
</tr>
<tr>
<td>BUS ADM 361</td>
<td>Business Scholars: Principles of Marketing</td>
</tr>
<tr>
<td>BUS ADM 371</td>
<td>Business Scholars: Introduction to Supply Chain Management</td>
</tr>
</tbody>
</table>

Business Scholars Seminars
Select one of the following options: [6 credits]

**Option A**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 493</td>
<td>Business Scholars: Seminar in Business</td>
</tr>
<tr>
<td>BUS ADM 493</td>
<td>Business Scholars: Seminar in Business</td>
</tr>
</tbody>
</table>

**Option B**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 493</td>
<td>Business Scholars: Seminar in Business</td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics</td>
</tr>
</tbody>
</table>

Total Credits: 23

Continuation and Graduation Requirements
Students must maintain a cumulative UWM GPA of 3.25 or higher, complete a minimum of 23 credits of Business Scholars coursework, participate in Business Scholars activities, and meet with the Business Scholars academic advisor during the final semester before graduation to verify degree requirements are met.
ENTERPRISE RESOURCE PLANNING, GRADUATE CERTIFICATE

The Online Graduate Certificate in Enterprise Resource Planning is designed for students who desire a sequence of graduate-level courses that focus specifically on the Enterprise Resource Planning (ERP) area.

The growing use of ERP systems in organizations is driving the need for IT professionals with ERP competencies. The Online Graduate Certificate in ERP leverages the significant SAP expertise of faculty at the Lubar School, which is home to one of only six SAP University Competence Centers in the world.

This five-course sequence prepares students for the SAP TERP10 certification exam and includes a simulation game and instruction in the use of business intelligence tools. The certificate can be completed in less than one year.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
To obtain the certificate, a student must complete 15 credits of required coursework.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 811</td>
<td>Process and Work-Flow Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 732</td>
<td>Enterprise Resource Planning</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 733</td>
<td>Enterprise Simulation Game</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

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

The Certificate in Enterprise Resource Planning is designed for business students who desire a sequence of courses that focus specifically on the Enterprise Resource Planning (ERP) area. ERP systems are critical information systems that connect a company's operations, including purchasing, production, sales, service, accounting, supply chain, finance and asset management, and customer/supplier relationships.

ERP certificate students will not only develop knowledge in ERP but also develop mobile ERP applications and participate in an ERP simulation game. Because the Lubar School is home to one of only six SAP University Competence Centers in the world, Lubar faculty have extensive ERP teaching experience.

The certificate is designed for non-Information Technology Management majors. This five-course sequence prepares students for the SAP TERP 10 certification exam.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Requirements
To obtain the certificate, a Lubar School of Business non-ITM major must complete 15 credits of required coursework while fulfilling all requirements of the baccalaureate degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 336</td>
<td>Enterprise Systems and Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choose four of the following courses:</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 536</td>
<td>Business Intelligence</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 537</td>
<td>Enterprise Systems Concepts and Issues</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 538</td>
<td>Business Process Integration</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 539</td>
<td>Web Application Server Development</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 540</td>
<td>TERP 10 Certification</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Note: A non-ITM business major may count no more than 6 credits from a major towards the Certificate in Enterprise Resource Planning.

Eligibility
To apply to the Certificate in Enterprise Resource Planning program, students must be admitted to Lubar School of Business and have completed the foundation courses.

Graduation
Students must complete all coursework required for the certificate with at least a 2.25 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.
ENTREPRENEURSHIP,
UNDERGRADUATE
CERTIFICATE

New ideas and innovation are what helps companies grow. Whether the goal is launching a new business, working for a smaller firm, or working in a large competitive company, it’s important to understand what it takes to develop an idea, product, or process in order to launch a new business or assist an existing company expand.

Lubar School of Business Entrepreneurship Certificate students gain the knowledge and skills needed to assess new business opportunities, obtain financial resources, market and start new ventures, and manage entrepreneurial endeavors for growth and profitability. As part of the certificate program, students develop a business plan and present it to faculty and entrepreneurs for feedback, providing the real flavor of what it takes to get a business off the ground.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

Requirements

To obtain the certificate, the student must complete a minimum of 15 approved entrepreneurship credits while fulfilling all requirements of the baccalaureate degree. The certificate is open to all students in good standing seeking a bachelor’s degree at the University of Wisconsin-Milwaukee and to all students who have previously received a bachelor’s degree from UWM or any other accredited college or university. Non-business majors will be required to complete prerequisites for the required courses and electives to fulfill the requirements for this certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 458</td>
<td>Venture Finance</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 466</td>
<td>Business to Business Sales and Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 492</td>
<td>Business Modeling of New Ventures</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 380</td>
<td>Introduction to Real Estate Markets</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 444</td>
<td>Human Resources Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 462</td>
<td>Marketing Research</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 467</td>
<td>Marketing Seminar (subtitle)</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 490</td>
<td>Entrepreneur Internship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 495</td>
<td>Special Topics in Business:</td>
<td></td>
</tr>
<tr>
<td>(Entrepreneurship topics only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>
EXECUTIVE, MBA

As the area's leader in executive education, the Lubar School of Business Executive MBA (EMBA) program offers business professionals a transformative 17-month educational and life experience designed especially for the experienced manager. The Lubar EMBA builds deep professional relationships with corporate executives and managers, and with an active network of successful Lubar Executive MBA alumni. The cohort format fosters a highly bonded network of peer professionals. Attending classes every other week - Friday evening and Saturday - provides the flexibility needed to balance a career while pursuing an Executive MBA degree.

The program includes collaborative technologies, advanced management research, applied learning projects, and an international trip.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Applicants for the Executive MBA Program must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) and additional program standards as specified below:

- Eight or more years of professional experience preferred, including significant management experience, and nomination of the employing organizations.
- Applicants are reviewed by the Master's Program Committee of the Lubar School of Business. The admission recommendations are based upon:
  - Academic achievement and ability to do intensive graduate-level work
  - Nature of managerial experience
  - Contribution to the varied skills of the class
  - Ability and willingness of the individual and the employer to make a 17-month commitment to the program.
  - Proof of competency in the four foundation requirement areas of financial accounting, macroeconomics, mathematics review, and team building and business communications through coursework, or through examinations as approved by the Master's Program faculty committee. Students are also assumed to have basic proficiency in the use of word processing, spreadsheet, presentation, and Web-browsing software.

See the program website (http://uwm.edu/business/academics/graduate/executive-mba) for additional information.

Credits and Courses

Students admitted to the Executive MBA Program will take the following courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGT 704</td>
<td>Accounting Analysis and Control</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGT 705</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

1 6 credits to be completed, e.g. Strategy Formulation, Business Ethics, Managerial Accounting, Developing Leaders, Mergers and Acquisitions, Digital Marketing, International Business Simulation, Legal Issues, Innovation Strategy for Managers & Leaders, etc.

Program Requirements

Major Professor as Advisor
The student in the Executive MBA Program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to the EMBA Director, Lubar N471, (414) 229-6045.

Thesis
Not required.

Comprehensive Examination
Not required.
FINANCE, BBA

The finance major provides the needed tools to work in investment management, corporate financial management, and banking. Position titles for finance majors include loan officers, mortgage review officers, stockbrokers, bond and security analysts, and ultimately, chief financial officers. Finance majors are increasingly taking and passing the Chartered Financial Analysts (CFA) examination. Thorough training in finance and related fields provides the practical and theoretical background needed to succeed in the fast-paced and fascinating world of domestic and international finance.

Whether students focus on either corporate finance or investment finance at the Lubar School, all students gain an understanding of business and economy, the functions of financial institutions and capital markets, and investment and borrowing instruments. Students learn how to use data and technology as tools to assist in making decisions by applying the understanding of financial data and analysis.

Requirements

Students admitted to a Business major Fall 2012 and after

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advancement to Major (p. 377)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirements (p. 377)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Business Foundation Courses (p. 377)</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Business Core (p. 378)</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Finance Major Requirements (p. 378)</td>
<td></td>
<td>21-22</td>
</tr>
<tr>
<td>Business Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>123-124</td>
</tr>
</tbody>
</table>

Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attain Junior standing (56 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>Or place high enough on the English Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or place high enough on the Math Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Business Foundation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With a cumulative GPA of 2.25 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Advancement to the Major form</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available in the Undergraduate Student Services office or online</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>1</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>1</td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits (At least two courses including one lab)</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>UWM Foreign Language Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>3 Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>4 Excluding MATH 211, MATH 221, or MATH 231.</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>2</td>
</tr>
</tbody>
</table>

4 Excluding MATH 211, MATH 221, or MATH 231.
MATH 211  Survey in Calculus and Analytic Geometry (or equivalent)  4
COMMUN 103  Public Speaking  3
or COMMUN 105  Business and Professional Communication
Total Credits  20

1 A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 372) should enroll in the equivalent BUS ADM 207 course.
2 A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 372) should consider the equivalent BUS ADM 231 course.

### Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics  (Business Scholars course option)</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 302</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations  2</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance  3</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing  4</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management  5</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**International Business Component**

Complete one of the following:  3
- BUS ADM 456  International Financial Management
- BUS ADM 465  International Marketing
- BUS ADM 496  International Business
- BUS ADM 498  Study Abroad: Business Topics:  1,2
- BUS ADM 535  Global Information Technology Management
- BUS ADM 541  Cross-Cultural Management
- BUS ADM 551  International Investments  1,2

Total Credits  28

1 Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.
2 Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.
3 A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.
4 Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.
5 Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.

### Finance Major Requirements

A minimum of 21 credits is required beyond BUS ADM 350 (Principles of Finance) or BUS ADM 351 (Business Scholars: Principles of Finance). A minimum "C" grade must be earned in BUS ADM 350 or BUS ADM 351 to pursue the finance major. BUS ADM 450 (Intermediate Finance) is a prerequisite or co-requisite for several courses in the finance major. BUS ADM 450 should be completed soon after BUS ADM 350 or BUS ADM 351.

### Major Electives

Select four courses from the list below:
- BUS ADM 301  Intermediate Accounting  1
- BUS ADM 452  Applied Portfolio Management  1
- BUS ADM 453  Corporate Finance Seminar
- BUS ADM 454  Analysis of Options and Futures  1
- BUS ADM 456  International Financial Management  1,2
- BUS ADM 457  Financial Modeling
- BUS ADM 458  Venture Finance
- BUS ADM 459  Finance Professional Internship
- BUS ADM 481  Real Estate Finance  1
- BUS ADM 551  International Investments  1,2

Total Credits  21-22

1 This finance major course represents foundational material for the CFA Level 1 Exam.
2 If BUS ADM 456 or BUS ADM 551 is selected as the International Business Component course, students must choose a different finance elective to complete the major.

### Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

Select 12 credits in the Lubar School of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.

Total Credits  12

### General Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>1</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>1</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>1</td>
</tr>
<tr>
<td>foreign Language credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 300</td>
<td>Career and Professional Development:</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits  18
Degree Completion Requirements

Credits
A minimum of 123 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

Grade Point Average
Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

Residence Requirements
A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Post-Baccalaureate Options
The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar School's Policies and Regulations (p. 328). The Accounting major may not be completed as a second undergraduate degree.

Double Majors
Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

Honors in the Lubar School of Business

Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 372).

Dean's Honor List
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Advising
For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising) All students should meet with an academic advisor at least once a semester.

Career Services
The Lubar School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.
GENERAL BUSINESS, MINOR

No matter the major, employers in every field are looking for people who have backgrounds in business. The Lubar School of Business offers a General Business Minor to provide a professional business education dimension to non-business students at UWM schools and colleges.

As a Business Minor, courses are completed that examine the many facts of business, including accounting, finance, marketing, management, information systems, and economics, developing business knowledge and skills that assist anyone working in today’s marketplace.

The courses in the program are offered in both online and in-person formats. Most students spread out the 29-credit Business Minor coursework over their academic career.

Interested students should contact the academic advisors in Room N297 of Lubar Hall, (414) 229-5271, for further details.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics 1</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 29

Or equivalent. Consult an academic advisor in Undergraduate Student Services for a list of equivalent courses.

At least 15 credits for the General Business Minor must be completed at UWM. You must also complete all 29 credits with an overall grade point average of at least 2.25. No courses may be taken on a credit/no credit basis.

Post-baccalaureate General Business Minor

The General Business Minor is available at the post-baccalaureate level. Students requiring no more than 6 credits to complete the minor are eligible. At least 15 credits for the post-baccalaureate General Business Minor must be completed at UWM. A minimum of 3 post-baccalaureate credits must be completed at UWM. A minimum overall GPA of 2.25 on all General Business Minor courses must be earned; a minimum UWM post-baccalaureate GPA of 2.0 is required.
GLOBAL STUDIES, BA: GLOBAL MANAGEMENT

Global Management Track
The Global Management track of UWM’s Global Studies program, focusing on the impact of globalization on business and the world economy, will prepare students as future managers capable of analyzing transnational issues; strategizing within a global, cross-cultural context; and implementing projects with a strong understanding of globalization’s implications for the private and public sectors. This track will prepare students to assume leadership roles in many areas, but it will be advantageous especially in such fields as international business, consulting, education, government, and public policy. In addition, graduates of this track will meet all the requirements for admission to an MBA program. The College of Letters and Science and the Sheldon B. Lubar School of Business jointly award this degree.

For more information on how to complete the Global Management Track, see the Global Studies, BA (p. 1438).
HUMAN RESOURCES AND LABOR RELATIONS, MHRLR (LUBAR SCHOOL OF BUSINESS)

Related Certificates
- Graduate Certificate in Mediation and Negotiation (http://uwm.edu/graduateschool/mediation-negotiation-certificate)
- Graduate Certificate in International Human Resources and Labor Relations (http://uwm.edu/graduateschool/international-human-resources-labor-relations-certificate)

Overview
The Master of Human Resources and Labor Relations (MHRLR) prepares leaders to be successful professionals. Whether you are currently in the field, a recent college graduate or wish to change careers, MHRLR provides the knowledge necessary to thrive. Our classes emphasize practical application of theory, laying the foundation for your future success.

Jobs in Human Resources will grow faster than average over the next decade. The MHRLR degree allows you to capitalize on that growth and advance in an increasingly complex business environment.

While the majority of our students work full-time in the profession and attend classes part-time, many others choose to attend full time to progress more quickly through the program. Our small classes provide the opportunity to network with both the faculty and fellow human resources and labor relations professionals.

The Lubar School of Business and the College of Letters and Science jointly offer the MHRLR degree.

Admission Requirements

Application Deadline
Students may begin their studies in the Fall, Spring or Summer semesters. Applications are accepted on a continuous basis. The program does not have a specific deadline to apply.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following requirements to be considered for admission to the MHRLR program:

1. Submission of two letters of recommendation to the MHRLR program.
2. Submission of GRE (http://uwm.edu/graduateschool/admission/#gre) or GMAT (http://uwm.edu/graduateschool/admission/#gmat) scores is recommended, but not required.
3. Students admitted to the program will be expected to present at least three credits of prior work in both microeconomics and introductory statistics.
4. Students who are deficient in the areas of microeconomics or statistics at the time of admission (see above), will be expected to satisfy deficiency requirements within three enrolled semesters. Deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted for the degree.
5. Applicants are reviewed by the MHRLR admissions committee to assess academic achievements and the ability to do intensive graduate-level work.

Credits and Courses
The Master of Human Resources and Labor Relations degree will be awarded upon completion of 36 credits of prescribed graduate study and appropriate prerequisite coursework. The program offers a balance between liberal arts and business-based education, requiring that at least 15 credits be taken within the College of Letters and Science and at least 15 credits be taken within the Lubar School of Business. The MHRLR Program believes in a common body of knowledge and skills necessary to be an effective Human Resource or Labor Relations professional.

The program has a required core of seven courses totaling 21 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND REL 701</td>
<td>Industrial and Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 735</td>
<td>Staffing Organizations</td>
<td>3</td>
</tr>
<tr>
<td>IND REL 720</td>
<td>Economics of Personnel 1</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 753</td>
<td>Collective Bargaining</td>
<td></td>
</tr>
<tr>
<td>IND REL 712</td>
<td>Employment Law 2</td>
<td>3</td>
</tr>
<tr>
<td>or IND REL 711</td>
<td>Labor Relations Law</td>
<td></td>
</tr>
<tr>
<td>IND REL 731</td>
<td>Research Tools for Practitioners in Human Resources and Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>or BUSMGMT 731</td>
<td>Research Tools for Practitioners in Human Resources and Labor Relations</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

1. If IND REL 720 and ECON 753 are both taken, one of these may be used to help fulfill elective requirements.
2. If IND REL 711 and IND REL 712 are both taken, one of these may be used to help fulfill elective requirements.
3. The required course Research Tools for Practitioners in Human Resources and Labor Relations can be taken as either IND REL 731 or BUSMGMT 731 (but not both).

Elective Courses
The choice of electives to complete a MHRLR degree should reflect student interest. Students are not required to choose a specialization and are encouraged to select those electives that best suit their backgrounds and interests. A student may take up to 6 credits from the approved list of alternative electives in other schools such as the College of Nursing, the School of Education, and the School of Social Welfare. No student will be permitted to apply more than nine credits taken at the U/G level toward meeting MHRLR degree requirements. Please refer to the MHRLR website (http://uwm.edu/human-resources-labor-relations/graduate/requirements/elective-courses) for a comprehensive listing of elective courses.

Students without prior experience in the field are encouraged to take advantage of the program’s extensive contacts in the business and labor communities by undertaking one or more internships as either
BUS ADM 899 or IND REL 921. Students may also utilize the wide range of faculty expertise available within the program for a major research paper on a human resources or labor relations topic. These papers, under the direction of a faculty advisor, are taken as either IND REL 801 or BUS ADM 899. A student may graduate with honors from the MHRLR program by maintaining a 3.5 grade-point average within the program, and by writing a 3-credit major research paper (under BUS ADM 899 or IND REL 801).

Any new course development, programmatic changes, or program name change must be approved by the appropriate curricular committees and faculty in the respective units.

The program, including admissions and course staffing, is subject to the AACSB accreditation requirements.

Program Requirements

Major Professor as Advisor
The assistant director of the MHRLR Program advises and supervises newly admitted students. The assistant director, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements.
HUMAN RESOURCES MANAGEMENT, BBA

Human resource (HR) managers play an essential and strategic role in helping organizations recruit, train and retain an effective workforce. HR managers understand people and help organizations create an inclusive and productive workforce by providing performance and talent management systems, offering training, career development and work-life programs, and by creating effective compensation and benefits packages. HR managers also help organizations develop effective leaders and teams, and proactively work with top-management to build inclusive and positive organizational cultures. Effective HR managers are skilled in interpersonal communication, conflict resolution, diversity management, and perspective-taking.

This major prepares students for entry-level careers in either generalist or specialist areas of human resource management. The curriculum offers students a broad base of knowledge and skills needed to work with an increasing diverse and global workforce.

Requirements

Students admitted to a Business major Fall 2012 and after

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Advancement to Major (p. 384)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education Requirements (p. 384)</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Business Foundation Courses (p. 384)</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Business Core (p. 385)</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>HRM Major Requirements (p. 385)</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Business Electives</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>General Electives</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>123</td>
</tr>
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</table>

Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Attain Junior standing (56 credits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or place high enough on the English Placement Test</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or place high enough on the Math Placement Test</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete the Business Foundation Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>With a cumulative GPA of 2.25 or above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete the Advancement to the Major form</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Available in the Undergraduate Student Services office or online</td>
<td></td>
</tr>
</tbody>
</table>

Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 205 Business Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 211 Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

3 Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.

4 Excluding MATH 211, MATH 221, or MATH 231.

Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>3</td>
</tr>
</tbody>
</table>
MATH 211  Survey in Calculus and Analytic Geometry (or equivalent)  4
COMMUN 103  Public Speaking  3
or COMMUN 105  Business and Professional Communication

Total Credits  20

1 A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 372) should enroll in the equivalent BUS ADM 207 course.
2 A grade of "C" or better in BUS ADM 330 (Organizations) or BUS ADM 331 (Business Scholars: Organizations) is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 372) should consider the equivalent BUS ADM 321 course.

Human Resources Management Major Requirements

Human Resources Management majors are required to complete PSYCH 101 (Introductory Psychology) as part of their Social Sciences requirement.

The major in human resources management requires 21 human resources management credits beyond the 3 credits of BUS ADM 330 (Organizations) or BUS ADM 331 (Business Scholars: Organizations).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 444</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 440</td>
<td>Compensation Management</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management: (Topic: Employment Law)</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 445</td>
<td>Training &amp; Development in Organizations</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 448</td>
<td>Staffing Human Resources</td>
<td>1</td>
</tr>
<tr>
<td>ECON 415</td>
<td>Economics of Employment and Labor Relations</td>
<td></td>
</tr>
</tbody>
</table>

HRM Electives  9

Select three courses from the Core Courses listed above or from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 442</td>
<td>Industrial Psychology</td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management: (subtitle)</td>
</tr>
<tr>
<td>BUS ADM 449</td>
<td>Human Resources Management Professional Internship</td>
</tr>
<tr>
<td>COMMUN 300</td>
<td>Interviewers and Interviewing</td>
</tr>
<tr>
<td>COMMUN 310</td>
<td>Communication in Organizations</td>
</tr>
<tr>
<td>ECON 448</td>
<td>Economics of Human Resources</td>
</tr>
<tr>
<td>PSYCH 325</td>
<td>Research Methods in Psychology</td>
</tr>
</tbody>
</table>

Total Credits  21

1 These HRM major courses represent foundational material for the SHRM Assurance of Learning Certification exam.

Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.
Double Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising) All students should meet with an academic advisor at least once a semester.

Career Services

The Lubar School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

Honors in the Lubar School of Business

Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 372).

Dean’s Honor List

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is rounded.

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
INFORMATION TECHNOLOGY MANAGEMENT, BBA

The Information Technology Management (ITM) degree provides undergraduate students with the knowledge needed to develop creative and effective business solutions, based on a thorough comprehension of business problems and opportunities.

To that end, students are provided with a strong technical foundation in contemporary approaches to business application systems development which includes planning, analysis, design, project management, programming, maintenance, and support using state-of-the-art technologies, tools, and techniques, as well as an essential background in various business functional areas, such as management, marketing, accounting, finance, supply chain, and economics. In addition, there is an emphasis on the communication skills and teamwork critical to client understanding and satisfaction.

The ITM program is intended to be the first step in a lifelong learning experience in the exciting and dynamic field of ITM. It provides a strong foundation for advancement and success in ITM careers and ventures.

Requirements

Students admitted to a Business major Fall 2012 and after

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advancement to Major (p. 387)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirements (p. 387)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Business Foundation Courses (p. 387)</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Business Core (p. 388)</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Major Requirements (p. 388)</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Business Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attain Junior standing (56 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>or place high enough on the English Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>or place high enough on the Math Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Business Foundation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With a cumulative GPA of 2.25 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Advancement to the Major form</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available in the Undergraduate Student Services office or online</td>
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</tr>
</tbody>
</table>

Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>1</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>1</td>
</tr>
<tr>
<td>or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
</tbody>
</table>

Or equivalent course

Arts

Select 3 credits | 3 |

Humanities

Select 6 credits | 6 |

Social Sciences

Select 6 credits | 4 |

Natural Sciences

Select 6 credits (At least two courses including one lab) | 5 |

UWM Foreign Language Requirement

Complete Foreign Language Requirement through: | 1 |

Two years (high school) of a single foreign language |  |

Two semesters (college) of a single foreign language |  |

Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement | 1 |

Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.

Excluding MATH 211, MATH 221, or MATH 231.

Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>1</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology</td>
<td>2</td>
</tr>
<tr>
<td>Management</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
Information Technology Management Major Requirements

**Business Core Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics</td>
<td>4</td>
</tr>
<tr>
<td>(Business Scholars course option)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 302</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**International Business Component**

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
</tr>
<tr>
<td>BUS ADM 541</td>
<td>Cross-Cultural Management</td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments</td>
</tr>
</tbody>
</table>

Total Credits: 28

1. Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.
2. Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.
3. A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.
4. Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.
5. Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

**Major Electives**

Select four courses from the list below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 433</td>
<td>Information Technology Project Management</td>
</tr>
<tr>
<td>BUS ADM 438</td>
<td>Information Technology Management Topics:</td>
</tr>
<tr>
<td>BUS ADM 439</td>
<td>Information Technology Management Professionals Internship</td>
</tr>
<tr>
<td>BUS ADM 530</td>
<td>Introduction to eBusiness</td>
</tr>
<tr>
<td>BUS ADM 531</td>
<td>Developing Web Applications Using Web Services</td>
</tr>
<tr>
<td>BUS ADM 532</td>
<td>Web Development for Open Business Systems</td>
</tr>
<tr>
<td>BUS ADM 533</td>
<td>Information Technology Infrastructure for Business</td>
</tr>
<tr>
<td>BUS ADM 534</td>
<td>Advanced Information Technology Project Management</td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
</tr>
<tr>
<td>BUS ADM 536</td>
<td>Business Intelligence</td>
</tr>
<tr>
<td>BUS ADM 537</td>
<td>Enterprise Systems Concepts and Issues</td>
</tr>
<tr>
<td>BUS ADM 538</td>
<td>Business Process Integration</td>
</tr>
<tr>
<td>BUS ADM 539</td>
<td>Web Application Server Development</td>
</tr>
</tbody>
</table>

Total Credits: 24

1. A grade of "C" or better is required in BUS ADM 335 in order to enroll in advanced ITM courses.
2. If BUS ADM 535 is selected as the International Business Component course, students must choose a different ITM elective to complete the major.
3. These ITM courses represent foundational material for the TERP 10 Certification preparation course exam.

**Business Electives**

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.
Accounting major may not be completed as a second undergraduate degree only. Requirements of a second undergraduate degree begin.

Within the 10-year time frame, the students will switch to the most current major or Business Certificate program.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar School’s Policies and Regulations (p. 328).

Degree Completion Requirements

Credits

A minimum of 123 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar School’s Policies and Regulations (p. 328).

Accounting major may not be completed as a second undergraduate degree.

General Electives

Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language credits</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 300</td>
<td>Career and Professional Development:</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

Double Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising)All students should meet with an academic advisor at least once a semester.

Career Services

The Lubar School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

Honors in the Lubar School of Business

Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 372).

Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
INFORMATION TECHNOLOGY MANAGEMENT, MS

The Master of Science in Information Technology Management (ITM) program at the Lubar School of Business is an innovative, STEM-designated program that combines technical, managerial, and business knowledge - providing students with a unique blend of skills to address IT challenges in today's dynamic business environment.

Through a combination of rigorous core courses and advanced elective courses, students acquire a diverse skill set in information technology management and develop specialized knowledge and expertise in areas such as enterprise resource planning, business analytics, and security and risk management.

The program is designed to serve both individuals pursuing a change in career, as well as IT professionals desiring greater in-depth knowledge to advance in their careers. In addition, it will prepare students who seek admission to a PhD program. The program can be completed within one to three years, depending upon part-time or full-time enrollment status.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. Submission of scores on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
2. Review by the MS-ITA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

Credits and Courses
The MS in ITM degree is a 30-credit program and includes 15 Required credits and 15 Elective credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 744</td>
<td>Information Technology Strategy and Management</td>
<td>15</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 748</td>
<td>Managing Information Technology Projects (capstone course)</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 811</td>
<td>Process and Work-Flow Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 812</td>
<td>Emerging Information Technologies for Business</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 814</td>
<td>Enterprise Knowledge &amp; Semantic Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 818</td>
<td>Information Systems Practicum</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 819</td>
<td>Information Technology Management Internship</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 732</td>
<td>Enterprise Resource Planning</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 733</td>
<td>Enterprise Simulation Game</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 734</td>
<td>Enterprise Simulation Game</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor
Admitted students are assigned a faculty advisor who will work with the student to assemble a program of study. The advisor will monitor students' progress towards degree completion, including modification of program of study plans, if necessary.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.
INTERNATIONAL BUSINESS,
UNDERGRADUATE
CERTIFICATE

Most businesses are affected in some way by international influences, such as currency issues, outsourcing, transportation, or distribution networks. No matter the degree, an understanding of international economics, political, and cultural differences will provide new perspectives. Students with an interest in overseas markets and the global economy will find the International Business Certificate a valuable addition to springboard a business career.

The Certificate in International Business is designed to offer UWM students the opportunity to complement their major field of study with an additional concentration in international business. Students will take a coordinated series of international courses and receive a certificate that signifies their knowledge in this area.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

Requirements

To obtain the certificate, the student must complete a minimum of 15 approved international business credits while fulfilling all requirements of the baccalaureate degree, including UWM’s foreign language requirement. The certificate is open to all undergraduate business and non-business majors and to students who have previously earned a bachelor’s degree from UWM or any accredited college or university. Non-business majors will need at least 17 prerequisite credits of business coursework, in addition to ECON 103 and ECON 104, to complete this certificate.

Completing the certificate requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong> 1</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management 2</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing 2</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business 2</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select at least two additional internationally-oriented courses from the following</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 467</td>
<td>Marketing Seminar: (International topics only) 2</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 494</td>
<td>International Business Internship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 495</td>
<td>Special Topics in Business: (International topics only) 3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 497</td>
<td>Study Abroad: (International topics only) 3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management 2</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 541</td>
<td>Cross-Cultural Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments 2</td>
<td></td>
</tr>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

1 Students majoring in business administration and completing an International Business Certificate can count BUS ADM 496 toward their International Business component.
2 A business student may count no more than 6 credits from a major towards a business certificate.
3 Repeatable for credit with a change in topic up to 6 credits.

Note: Non-business students will need at least 17 prerequisite credits from the Lubar School of Business, in addition to ECON 103 and ECON 104, to complete this certificate. BUS ADM 456 requires BUS ADM 350 (which requires ECON 103, ECON 104, BUS ADM 201, and BUS ADM 210 or equivalent); BUS ADM 465 requires BUS ADM 360 (which also requires ECON 104); and BUS ADM 496 requires BUS ADM 330 (plus BUS ADM 350 and BUS ADM 360).

Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

ECON 454 International Trade
POL SCI 316 International Law
POL SCI 330 The Politics of International Economic Relations
POL SCI 339 European Integration
POL SCI 343 Asian International Relations
POL SCI 346 U.S.-Latin American Relations
GLOBAL 311 Contexts for Global Management
INVESTMENT MANAGEMENT, GRADUATE CERTIFICATE

The Graduate Certificate in Investment Management provides students with the knowledge and skills necessary to manage a balanced (fixed income and equity) investment fund. Those completing the certificate will gain a substantial competitive edge in pursuing a career as a financial analyst or investment advisor, and will have an outstanding foundation to become an investment portfolio manager, chief investment officer, or independent financier.

The curriculum features a broad spectrum of investment-related subjects, with an emphasis on intensive research and applied training in complex financial tools and techniques. The program also includes a professional internship. Central to the curriculum is the David O. Nicholas Applied Finance Lab, which is equipped with state-of-the-art professional databases, streaming financial news and financial software, replicating the technology and real-time market data, analysis, and news available to professional traders in investment firms.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

Credits and Courses
It is recommended that the following courses have been completed prior to admission to the certificate: BUS ADM 721 & BUS ADM 771 (or undergraduate equivalents). If not completed prior to admission to the certificate, BUS ADM 721 (or BUS ADM 301) and BUS ADM 771 must be taken concurrently with BUS ADM 552. Admission is competitive and is based on cumulative GPA, quantitative-related course grades, personal statement, a possible interview and interview essay, interest in investments and finance, and other considerations.

To obtain the certificate, a student must complete 18 credits of required coursework. The certificate may be completed alone, or in conjunction with a degree program. Due to the intensity of the coursework in the Investment Management Certificate, the program will be of most interest to students pursuing an M.S. in Management degree with a concentration in Finance Analysis, or an M.B.A.

Certificate Requirements

Internship Requirement
Students completing the certificate are also required to have an internship experience prior to graduation from the certificate program. The internship experience must be approved by the IMCP director.

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

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

The Investment Management Certificate (IMC) is designed to offer business students the opportunity to enhance their major field of study in finance (or additional major including finance) with an additional certificate in investment management. Students completing the Investment Management Certificate will have coursework in investment-related subjects and three special courses comprising intensive research and real-time practical training in investment portfolio management. This training will utilize the David O. Nicholas Applied Finance Lab located in the Sheldon B. Lubar School of Business. Finance majors who have completed this certificate will gain a substantial competitive edge in pursuing a career initially as a financial analyst and as an investment advisor, later as an investment portfolio manager, possibly as a chief investment officer, and ultimately, as an independent financier.

In addition to a rich curriculum, IMC students meet regularly with investment professionals during, and outside of, class for discussions of the funds, markets, and course topics. The Lubar School of Business is part of the prestigious Chartered Financial Analyst (CFA) Institute University Recognition Program.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Requirements

To obtain the certificate, a student must complete 18 credits of required coursework while fulfilling all requirements of the baccalaureate degree. It is recommended that students complete BUS ADM 301 and BUS ADM 451 prior to admission to the program. If not completed prior to admission to the program, BUS ADM 301 and BUS ADM 451 must be taken as co-requisites with BUS ADM 552. Due to the intensity of the coursework in the Investment Management Certificate, the program will be of most interest to students pursuing the finance major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 452</td>
<td>Applied Portfolio Management 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 454</td>
<td>Analysis of Options and Futures 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 552</td>
<td>Investment Management Practice I 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 553</td>
<td>Investment Management Practice II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 554</td>
<td>Investment Management Practice III</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

1 A business student may count no more than 6 credits from a major towards the Certificate in Investment Management.

Eligibility

To apply to the Certificate in Investment Management program, students must be admitted to the Lubar School of Business, have earned a minimum B grade in BUS ADM 201 or BUS ADM 207, be eligible to enroll in BUS ADM 301, and have completed or be enrolled in BUS ADM 450. Admission is competitive and is based on cumulative GPA, quantitative-related course grades, personal statement, a possible interview and interview essay, interest in investments and finance, and other considerations.

Internship Requirement

Students completing the certificate also are required to have an internship experience prior to graduation from the certificate program. The internship experience must be approved by the IMCP director.

Graduation Requirements

Students must complete all coursework required for the certificate with at least a 3.0 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.
MANAGEMENT SCIENCE, PhD

The Management Science PhD program is a rigorous and high-quality, research-oriented program that offers students an opportunity to specialize in one of six management fields: accounting, finance, information technology management, marketing, organizations & strategic management, and supply chain/operations management. Students may also minor in business statistics, international business, economics, econometrics, or psychology.

The Lubar School of Business Management Science PhD is a STEM-designated program. This rigorous program will provide the independent research skills needed to prepare the student for success in academia or a research-related career.

The classes, papers and exams are the formal portion of this apprenticeship. Beyond that, however, much of what the student learns will occur out of the class by attending research colloquia, presenting personal research, holding informal discussions with faculty, working with faculty and others on research projects, and interacting with other PhD students.

Objectives of the Lubar PhD program include effectively analyzing research questions in the area of specialization, demonstrating research competence, developing teaching skills, and establishing an independent, high quality research record.

The degree requires a minimum of 34 credits beyond the master or 54 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

Management Science PhD applications must be received by January 1 for admission to the following Fall semester. The application package must be complete and all materials received by February 1. All applications are reviewed in mid-February for the upcoming academic year starting in September.

Applicants must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission to the program:

- A bachelor’s degree from an accredited college or university. Almost all applicants admitted, however, are master’s degree holders.
- Substantial evidence of scholarly potential and commitment.
- Submission of score on either the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat) or the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
- Two letters of recommendation in support of the candidate’s competence to do doctoral work.
- A written statement from the applicant stating reasons for pursuing PhD level study and an indication of the major field to be studied.

Applicants are expected to have adequate preparation at the undergraduate or graduate level equivalent to one semester each of coursework in calculus, statistics, and linear algebra. Applicants who do not have the above background must complete equivalent courses. Specific courses from the Lubar School of Business or from departments outside the School will be suggested to satisfy preparation in these areas. These courses do not count toward credit requirements for the degree. As some areas of study admit students for alternating academic years, please review the following Lubar School of Business Website (http://uwm.edu/business/academics/doctoral/admissions).

Reapplication

A student who has received a master’s degree in Business Administration from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before beginning studies toward the PhD degree.

Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor’s degree, of which a minimum of 34 credits must be earned in residence at UWM beyond the master’s level.

The student plans an individual program of studies in consultation with the major professor. The program has no formal language requirement but the student is responsible for familiarity with published literature in the area of the student’s research. All students will also be required to complete an “Orientation to Teaching and Research” course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 900</td>
<td>Doctoral Orientation to Teaching and Research</td>
<td>1</td>
</tr>
<tr>
<td>Minimum 12 credits of research methods courses</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Minimum 12 credits in student’s major field</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Minimum 9 credits in student’s minor field of study</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Electives and BUS ADM 997</td>
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<td></td>
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<td>54</td>
<td></td>
</tr>
</tbody>
</table>

Stage 1

The first stage of the student’s program includes general preparation in a common core of knowledge. Students will be required to validate exposure to functional business areas: accounting, finance, information systems, marketing, and management. Method of validation is to be decided by the advisor and faculty from the major field area.

Stage 2

The second stage of the program consists of a required research methods component to be satisfied by a minimum of 12 credits from a recommended list of research methods courses.

Stage 3

The third stage of the program consists of coursework and research in the major and minor fields of study as specified in the student’s program of studies. Coursework must include a minimum of 12 credits in the student’s major field and a minimum of 9 credits in the student’s minor field of study.

As a first step in developing a research focus, PhD students are required to submit a paper by the end of their third semester to be presented at a research seminar, conference, or an on-campus seminar that includes at least two faculty members from their department.
If a student fails to complete the research paper requirement, he/she will be subject to dismissal from the doctoral program for lack of progress toward degree.

**Program Requirements**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. Within the first semester, the student arranges for assignment to an advisor within the student’s specialization.

**Residence**

The student must meet minimum Graduate School residence requirements.

**Doctoral Preliminary Examinations**

The student must pass written doctoral preliminary examinations in the major field of study. Minor field requirements include completing approved coursework with a specified grade point average or passing a written examination as specified by the appropriate department. A student is admitted as a candidate for the Ph.D. degree after successful completion of the doctoral preliminary examinations.

**Dissertation**

The candidate must write a dissertation that demonstrates ability to formulate a research topic and pursue independent and original investigation.

**Dissertation Defense**

A formal oral defense of the dissertation by the student and certification of the dissertation by the dissertation committee are necessary steps to complete the degree requirements.

**Time Limit**

All degree requirements must be completed within 10 years from the date of initial enrollment in the doctoral program.

Additional information on Graduate School PhD requirements is on the Graduate School website (http://uwm.edu/graduateschool/doctoral-requirements).
MANAGEMENT, MS

The Master of Science in Management (MS) degree is designed for those who want to specialize or advance in a particular area of business. Faculty in each area develop the optimal blend of principles, business solutions, and trends to create an intellectually stimulating environment. Each concentration emphasizes the linking of theory, applications, and innovative research with best management practices.

There are five concentrations available:
- Accounting (p. 397)
- Finance Analysis (p. 399)
- Marketing (p. 401)
- Professional Accounting (p. 403)
- Taxation (p. 405)

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:
- A bachelor’s degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar School of Business MBA/M.S. brochure and the Lubar School of Business Website (http://www4.uwm.edu/business) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:
- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N251).

The major professor, in consultation with the student, reviews the student’s academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

Credits and Courses
The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar School of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

Program Requirements
Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

Major Professor as Advisor
Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each M.S. student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

The Management Research Project/Thesis
The Management Research Project/Thesis is a variable 2-6 credit management research project.

Comprehensive Examination
Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

Time Limit
The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.
MANAGEMENT, MS: ACCOUNTING

The MS in Management - Accounting (MS-A) concentration prepares students for entry into the accounting profession as a Certified Public Accountant (CPA). Employers seek mature students with diverse prior undergraduate education backgrounds and work experiences. The program efficiently covers basic accounting principles and adds graduate level coursework in accounting for governmental and not-for-profit organizations, advanced accounting theory, decision-focused management accounting, and tax compliance and planning.

The program prepares students for success on the CPA exam. Graduates boast a pass rate substantially above national averages. Because the program is separately accredited in accounting by the AACSB (one of three such schools in Wisconsin), graduates automatically meets the requirements to take the CPA Exam and to be licensed as a CPA in Wisconsin.

Potential students typically take foundation courses prior to entering the program. Success in the foundation courses assures success in the program. The graduate program can be completed on a full-time basis in two semesters and a summer. Part-time students can complete the program in two years. A faculty member custom designs a program for each student. In most cases, a full-time internship is included for full-time students. The internship normally lead to full-time employment upon graduation.

A large portion of MS-A students intern and upon graduation take full-time positions in CPA firms ranging from "The Big 4" international firms to local practices. Other students choose industry positions which include Wisconsin's largest corporations and financial institutions.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

- A bachelor's degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubars School of Business MBA/M.S. brochure and the Lubars School of Business Website (http://www4.uwm.edu/business) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N251).

The major professor, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

Credits and Courses

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar School of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

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<thead>
<tr>
<th>Accounting Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 406</td>
<td>Income Tax Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 408</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 722</td>
<td>Advanced Financial Accounting Theory</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 724</td>
<td>Business Combinations and Governmental Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 725</td>
<td>Strategic Cost Management I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 726</td>
<td>Strategic Cost Management II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 728</td>
<td>Auditing Theory and Applications</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 753</td>
<td>Advanced Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 821</td>
<td>Business Taxation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 840</td>
<td>Current Issues in Financial Reporting</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 Integrating course

Program Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and
strong ties with the business sector provide opportunities for student projects.

**Major Professor as Advisor**
Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each M.S. student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

**The Management Research Project/Thesis**
The Management Research Project/Thesis is a variable 2-6 credit management research project.

**Comprehensive Examination**
Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.
MANAGEMENT, MS: FINANCE ANALYSIS

The MS in Management - Finance Analysis concentration includes extensive study of financial markets to prepare students for professional careers in corporate and investment finance. The curriculum includes an examination of capital markets, investment banking, financial institutions, corporate financial control, securities valuation techniques, capital budgeting, portfolio strategies, hedging and arbitrage, and international fund management.

The program provides students with foundational training in accounting and statistical analysis, in-depth finance skill sets necessary to understand and meet the growing needs of financial industries, and gain preparation necessary for the Chartered Financial Analyst (CFA) exams.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

- A bachelor’s degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar School of Business MBA/M.S. brochure and the Lubar School of Business Website (http://www4.uwm.edu/business) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N251).

The major professor, in consultation with the student, reviews the student’s academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

Credits and Courses

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar School of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

Finance Analysis

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS ADM 721</td>
<td>Financial Accounting Theory</td>
<td>21</td>
</tr>
<tr>
<td>BUS ADM 751</td>
<td>Analysis of U.S. Business Environment</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 771</td>
<td>Investments</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 775</td>
<td>Financial Strategy ¹</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 778</td>
<td>Financial Institutions and Markets</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers or BUS ADM 754</td>
<td>Statistical Analysis</td>
</tr>
</tbody>
</table>

Electives

Select four courses from the following list:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>BUS ADM 713</td>
<td>Business Forecasting Methods</td>
</tr>
<tr>
<td>BUS ADM 772</td>
<td>Portfolio Management</td>
</tr>
<tr>
<td>BUS ADM 773</td>
<td>Options And Futures</td>
</tr>
<tr>
<td>BUS ADM 774</td>
<td>Global Financial Management</td>
</tr>
<tr>
<td>BUS ADM 777</td>
<td>Advanced Corporate Finance</td>
</tr>
<tr>
<td>BUS ADM 779</td>
<td>Fixed Income Securities</td>
</tr>
<tr>
<td>BUS ADM 795</td>
<td>Seminar-in-Management: (Finance Topic)</td>
</tr>
<tr>
<td>BUS ADM 851</td>
<td>Global Investments</td>
</tr>
<tr>
<td>BUS ADM 852</td>
<td>Venture Finance</td>
</tr>
<tr>
<td>BUS ADM 853</td>
<td>Financial Modeling</td>
</tr>
</tbody>
</table>

Total Credits 33

¹ Integrating course

Program Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

Major Professor as Advisor

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise
and supervise their studies. A listing of faculty by area of interest is sent to each M.S. student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

**The Management Research Project/Thesis**
The Management Research Project/Thesis is a variable 2-6 credit management research project.

**Comprehensive Examination**
Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.
MANAGEMENT, MS: MARKETING

From the expanding presence of social media that empowers customers, to the downward pressure on prices due to increased competition, the rules of marketing continue to be rewritten. Today the number of media options that consumers turn to is in the hundreds of thousands, and businesses must find a way to position themselves strategically and cost effectively.

The MS-Marketing concentration provides knowledge to strategically position an organization - whether consumer or B2B - for competitive advantage, focusing on marketing strategy, marketing research, consumer behavior, and internet marketing. Additional emphasis on international operations delivers the tools needed to understand and overcome the economic, cultural, political, and legal barriers to international marketing.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

- A bachelor’s degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar School of Business MBA/M.S. brochure and the Lubar School of Business Website (http://www4.uwm.edu/business) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N251).

The major professor, in consultation with the student, reviews the student’s academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

Credits and Courses
The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar School of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

<table>
<thead>
<tr>
<th>Marketing</th>
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<td>Core</td>
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<tr>
<td>Code</td>
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<tr>
<td>BUS ADM 762</td>
</tr>
<tr>
<td>BUS ADM 764</td>
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<td>BUS ADM 765</td>
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<td>BUS ADM 806</td>
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<td>BUSMGMT 708</td>
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<table>
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<tbody>
<tr>
<td>Select four courses from the following list:</td>
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<td>BUS ADM 761</td>
</tr>
<tr>
<td>BUS ADM 763</td>
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<tr>
<td>BUS ADM 766</td>
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<td>BUS ADM 769</td>
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<td>BUS ADM 894</td>
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<td>BUS ADM 899</td>
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<tr>
<td>BUSMGMT 713</td>
</tr>
</tbody>
</table>

Total Credits | 30 |

1 Integrating course

Program Requirements
Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

Major Professor as Advisor
Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent

<table>
<thead>
<tr>
<th>University of Wisconsin-Milwaukee</th>
<th>401</th>
</tr>
</thead>
</table>
to each M.S. student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

**The Management Research Project/Thesis**
The Management Research Project/Thesis is a variable 2-6 credit management research project.

**Comprehensive Examination**
Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.
MANAGEMENT, MS: PROFESSIONAL ACCOUNTING

The MS in Management - Professional Accounting (MS-PA) program is the logical capstone degree in accounting for a student with an undergraduate degree in accounting. Students are advised to enter the program immediately after earning their undergraduate degree in accounting to in order to build on their current knowledge.

Lubar School of Business accounting programs are separately accredited by AASCB. We are one of only three accounting programs in the state and one of 193 schools in the world with such accreditation.

Because the undergraduate BBA Accounting major curriculum does not include all coursework needed to successfully pass the Certified Public Accounting (CPA) Exam, the MS-PA program adds advanced work in financial accounting theory, auditing, tax compliance and planning, and law. The program also includes a specialty choice in either Assurance Services (auditing) which covers financial statement analysis, auditing computerized systems and forensics; or a specialty in Taxation which covers multi-jurisdictional taxation, tax research, tax planning, and corporate taxation. Most students enter a public accounting career specializing in either auditing or tax. Some students choose to work for large corporations or financial institutions.

Students are advised to complete an accounting internship prior to entering the program. Typically, internships result in full-time employment offers upon graduation from the MS-PA program. The MS-PA is normally completed in one year (including summer and/or winterim coursework).

Under Wisconsin law, students with an undergraduate degree in accounting are allowed to sit for the CPA Exam during the program. Most students integrate taking the various parts of the CPA Exam while completing the MS-PA degree. Graduates have a pass rate 50% greater than the national average and four times greater than that of UWM undergraduates not entering the MS-PA program. Most students complete the CPA Exam before they begin full-time employment. Completing the MS-PA degree meets the education requirements to be a CPA in Wisconsin.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

• A bachelor’s degree from an accredited college or university.
• Submission of score on the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
• Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar School of Business MBA/M.S. brochure and the Lubar School of Business Website (http://www4.uwm.edu/business) for details.) Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

• Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
• Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
• Finance Analysis;
• Marketing.
• Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N251).

The major professor, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

Credits and Courses

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar School of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

<table>
<thead>
<tr>
<th>Professional Accounting</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BUS ADM 724</td>
<td></td>
<td>Business Combinations and Governmental Accounting</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 753</td>
<td></td>
<td>Advanced Business Law</td>
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<tr>
<td>BUS ADM 821</td>
<td></td>
<td>Business Taxation</td>
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<tr>
<td>BUS ADM 840</td>
<td></td>
<td>Current Issues in Financial Reporting</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 844</td>
<td></td>
<td>Auditing: Professional Standards and Practices</td>
<td></td>
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<tr>
<td>Tracks</td>
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<tr>
<td>Select one of the following tracks:</td>
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<td></td>
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<tr>
<td>Assurance Services Track</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taxation Track</td>
<td></td>
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<tr>
<td>Total Credits</td>
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<td></td>
<td>30</td>
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</table>
### Assurance Services Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 720</td>
<td>Information Systems Auditing</td>
<td>9</td>
</tr>
<tr>
<td>BUS ADM 723</td>
<td>Forensic Accounting</td>
<td></td>
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<tr>
<td>BUS ADM 841</td>
<td>Financial Statement Analysis ¹</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
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<td></td>
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<tr>
<td>Select two courses from the list below:</td>
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</tr>
<tr>
<td>BUS ADM 726</td>
<td>Strategic Cost Management II</td>
<td></td>
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<tr>
<td>BUS ADM 771</td>
<td>Investments</td>
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<tr>
<td>BUS ADM 772</td>
<td>Portfolio Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 773</td>
<td>Options And Futures</td>
<td></td>
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<td>BUS ADM 774</td>
<td>Global Financial Management</td>
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<td>BUS ADM 775</td>
<td>Financial Strategy</td>
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<td>BUS ADM 778</td>
<td>Financial Institutions and Markets</td>
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</tr>
<tr>
<td>BUS ADM 779</td>
<td>Fixed Income Securities</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 848</td>
<td>Professional Accounting Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 726</td>
<td>Study Abroad: Business Topics:</td>
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<tr>
<td></td>
<td>(subtitle: Ernst &amp; Young Graduate Accounting Study Abroad)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

¹ Integrating course

### Taxation Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Required</td>
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<td>12</td>
</tr>
<tr>
<td>BUS ADM 820</td>
<td>Tax Research, Practice, and Procedure ¹</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 823</td>
<td>Corporate Income Taxation</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 826</td>
<td>Tax Planning for Individuals</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 828</td>
<td>Taxation of Partnerships, S Corporations, and LLCs</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
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<td>3</td>
</tr>
<tr>
<td>Select one course from the list below:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 848</td>
<td>Professional Accounting Practice</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 726</td>
<td>Study Abroad: Business Topics:</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

¹ Integrating course

### Program Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

**Major Professor as Advisor**

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each M.S. student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

**The Management Research Project/Thesis**

The Management Research Project/Thesis is a variable 2-6 credit management research project.

**Comprehensive Examination**

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.
MANAGEMENT, MS: TAXATION

The MS-Taxation concentration prepares students to provide expert guidance on tax matters to business organizations and individuals. In this highly specialized curriculum, students develop technical competence in current tax laws, the ability to evaluate tax consequences of business and investment decisions, and understanding of the impact of tax policy on the economy and specific industries.

Admission Requirements

Application Deadlines

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Admission

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- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

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The major professor, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

Credits and Courses

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Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar School of Business, or from among those offered in graduate programs of other UWM departments.

Program Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

Major Professor as Advisor

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each M.S. student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

The Management Research Project/Thesis

The Management Research Project/Thesis is a variable 2-6 credit management research project.
Comprehensive Examination
Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

Time Limit
The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.
MARKETING, BBA

Marketing is a key factor contributing to the success of any business organization. It is the dynamic and creative process of the development, pricing, promotion, and distribution of products and services to satisfy customer and organizational objectives. Effective marketing requires an integration of eclectic knowledge and the skills pertinent to understanding consumer behavior, planning and analyzing marketing research data, thinking strategically, and managing people.

Students learn how marketing supports an organization’s objectives; how to examine consumer motivation and behavior; how to price, promote, and distribute products and services; and how to plan and analyze market research data to make good decisions.

Graduates of the marketing major find an exciting and broad spectrum of career opportunities in brand/product management, industrial selling, retailing, sales management, advertising, marketing research, customer-service management, and other areas.

Requirements
Students admitted to a Business major Fall 2012 and after

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Advancement to Major (p. 407)</td>
<td></td>
</tr>
<tr>
<td>General Education Requirements (p. 407)</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Business Foundation Courses (p. 407)</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Business Core (p. 408)</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Marketing Major Requirements (p. 408)</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Business Electives</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td>18</td>
<td></td>
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<tr>
<td>Total Credits</td>
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Advancement to the Major
Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Attain Junior standing (56 credits)</td>
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</tr>
<tr>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
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<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>Or place high enough on the English Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or place high enough on the Math Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the Business Foundation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With a cumulative GPA of 2.25 or above</td>
<td></td>
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<tr>
<td>Complete the Advancement to the Major form</td>
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<tr>
<td>Available in the Undergraduate Student Services office or online</td>
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Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
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<tr>
<td></td>
<td>Quantitative Literacy</td>
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<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
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<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Arts</td>
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<tr>
<td>Select 3 credits</td>
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<tr>
<td></td>
<td>Humanities</td>
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</tr>
<tr>
<td>Select 6 credits</td>
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<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
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<tr>
<td>Select 6 credits</td>
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<tr>
<td></td>
<td>Natural Sciences</td>
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<tr>
<td>Select 6 credits (At least two courses including one lab)</td>
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<td></td>
<td>UWM Foreign Language Requirement</td>
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<tr>
<td>Complete Foreign Language Requirement through:</td>
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<tr>
<td>Two years (high school) of a single foreign language</td>
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<tr>
<td>Two semesters (college) of a single foreign language</td>
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<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>UWM Cultural Diversity Requirement</td>
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<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
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</tr>
<tr>
<td>1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.</td>
<td></td>
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</tr>
<tr>
<td>3 Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.</td>
<td></td>
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</tr>
<tr>
<td>4 Excluding MATH 211, MATH 221, or MATH 231.</td>
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</table>

Business Foundation Courses
Complete with a cumulative grade point average of 2.25 or higher.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>3</td>
</tr>
</tbody>
</table>
MATH 211 Survey in Calculus and Analytic Geometry (or equivalent) 4
COMMUN 103 or COMMUN 105 Public Speaking 3
Business and Professional Communication

Total Credits 20

1 A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 372) should enroll in the equivalent BUS ADM 207 course.
2 A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 372) should consider the equivalent BUS ADM 231 course.

Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics (Business Scholars course option)</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 302</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
<td>3</td>
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</tbody>
</table>

International Business Component

Complete one of the following:

- BUS ADM 456 International Financial Management
- BUS ADM 465 International Marketing
- BUS ADM 496 International Business
- BUS ADM 498 Study Abroad: Business Topics:
- BUS ADM 535 Global Information Technology Management
- BUS ADM 541 Cross-Cultural Management
- BUS ADM 551 International Investments

Total Credits 28

1 Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.
2 Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.
3 A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.
5 Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.
4 Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS ADM 461</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 462</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 12

1 If BUS ADM 465 is selected as the International Business area course, students must choose a different marketing elective to complete the major.

Marketing Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS ADM 463</td>
<td>Marketing Management</td>
<td>3</td>
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</tbody>
</table>

Major Electives

Choose four courses from the list below:

- BUS ADM 447 Entrepreneurship
- BUS ADM 460 Retail Management
- BUS ADM 464 Management of Promotion
- BUS ADM 465 International Marketing
- BUS ADM 466 Business to Business Sales and Marketing
- BUS ADM 467 Marketing Seminar: (subtitle)
- BUS ADM 468 Internet Marketing
- BUS ADM 469 Marketing Professional Internship

Total Credits 21

1 Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.
2 Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.
3 A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.
4 Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

General Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
</tbody>
</table>
| Foreign Language credits
| BUS ADM 300 | Career and Professional Development             | 3       |

Total Credits 18

Degree Completion Requirements

Credits

A minimum of 123 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all
business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

Residence Requirements
A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Post-Baccalaureate Options
The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar School's Policies and Regulations (p. 328). The Accounting major may not be completed as a second undergraduate degree.

Double Majors
Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

Advising
For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising) All students should meet with an academic advisor at least once a semester.

Career Services
The Lubar School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

Honors in the Lubar School of Business
Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 372).
NONPROFIT MANAGEMENT AND LEADERSHIP, MS (LUBAR SCHOOL OF BUSINESS)

Related Certificates
- Graduate Certificate in Nonprofit Management (p. 412)

Overview
The College of Letters and Science and the Sheldon B. Lubar School of Business offer and present jointly the Master of Science (MS) in Nonprofit Management and Leadership. The program is designed to provide students with the essential theoretical and practical knowledge and skills needed to be successful in managing and leading nonprofit sector organizations.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
To be admitted to the MS in Nonprofit Management and Leadership degree program, an applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission).

During the admissions process, students will be asked to show evidence of having satisfactorily completed undergraduate or higher level foundation coursework in the principles of accounting and economics. Those students who are unable to show such evidence may be admitted with these academic deficiencies but will then meet with their respective academic advisors to identify and obtain approval for what they must do to remove these deficiencies.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants must submit the following for review by the Graduate School and the Nonprofit Management Program Faculty Committee:

1. Official transcripts from all colleges or universities previously attended.
2. Three letters of recommendation from persons familiar with the applicant’s academic ability and/or professional achievements.
3. Scores from either the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
4. For those students whose native language is not English, minimum TOEFL score (Test of English as a Foreign Language) of 550 PBT or 79 iBT or minimum IELTS score (International English Language Testing System) of 6.5.

5. Each student’s academic preparation is evaluated at the time of application. A personal interview may be required.

Credits and Courses
The MS in Nonprofit Management and Leadership degree requires satisfactory completion of 39 credits of graduate-level coursework including 33 credit-hours of required or “constrained choice” courses and 6 credit-hours of elective courses as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 718</td>
<td>Concepts and Practice of Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 721</td>
<td>Fundraising and Development for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 705</td>
<td>Professionals and Volunteers in Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 725</td>
<td>Governance of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 792</td>
<td>Decision-Making for Nonprofit and Public Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 793</td>
<td>Law of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 795</td>
<td>Introduction to Nonprofit Revenue Streams and Portfolios</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 791</td>
<td>Nonprofit Advocacy and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 958</td>
<td>Seminar in Nonprofit Administration: (The Nonprofit Economy)</td>
<td></td>
</tr>
<tr>
<td>NONPROF 740</td>
<td>Executive Leadership of Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 730</td>
<td>Strategic Management and Leadership for Nonprofit Organizations 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 

1. BUS ADM 441 Diversity in Organizations
2. BUS ADM 737 Managerial Decisions and Negotiations
3. BUSMGMT 706 Managing in a Dynamic Environment
4. BUSMGMT 707 Information Technology Management in International Businesses
5. BUSMGMT 715 Leadership, Team Building, and Effective Management
6. NONPROF 750 Social Entrepreneurship in the Nonprofit Sector
7. NONPROF 765 International Nongovernmental Organizations
8. NONPROF 770 Leveraging Technology in the Public and Nonprofit Sectors
9. NONPROF 785 Managing Change in Public and Nonprofit Organizations
10. NONPROF 921 Nonprofit Administrative Internship
11. PUB ADM 461 Organizational Theory and Practice
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
</tr>
<tr>
<td>SOCIOL 920</td>
<td>Seminar in Race and Ethnic Relations</td>
</tr>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
</tr>
<tr>
<td>URB STD 841</td>
<td>Health Policy in Urban Society</td>
</tr>
</tbody>
</table>

Total Credits 39

1. This course will serve as the integrative “capstone” requirement for the program and must be taken after completing all other required courses (or concurrently with the final required courses).

2. This is a pre-approved but not exhaustive list: Students may request alternative courses offered in other departments at UWM. Please send an email to Program Advisor with a course description and/or syllabus, and stated reasons why the course being proposed is an appropriate fit for the student's academic and career goals.

**Program Requirements**

**Major Professor as Advisor**

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

**Thesis**

Not Required

**Comprehensive Examination**

Not Required

**Time Limit**

The student must complete all degree requirements within seven years of initial enrollment.
NONPROFIT MANAGEMENT, GRADUATE CERTIFICATE (LUBAR SCHOOL OF BUSINESS)

The Graduate Certificate in Nonprofit Management is a collaborative effort between the Lubar School of Business, the College of Letters & Science, and other campus units that have research and/or teaching interests in nonprofit management and leadership, nonprofit organizations, the nonprofit sector, and philanthropy. The certificate responds to the growing need for trained professionals to assume management and leadership positions in non-governmental, nonprofit sector organizations.

The multi-disciplinary Graduate Certificate in Nonprofit Management is designed to provide students with the knowledge and skills needed to successfully pursue or advance careers within nonprofit sector organizations.

Students in degree programs across campus such as urban studies, public administration, business, social welfare, education or the arts, have combined the Graduate Certificate in Nonprofit Management with their degree to further enhance their academic preparation for their particular career goals.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

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

Credits and Courses
Students wishing to earn a Graduate Certificate in Nonprofit Management must complete the required 15 graduate credit hours. No student may complete all 15 credits within a single school or college. The curriculum consists of the following five courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 718</td>
<td>Concepts and Practice of Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 721</td>
<td>Fundraising and Development for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 725</td>
<td>Governance of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS ADM 766 Marketing for Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NONPROF 740 Executive Leadership of Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NONPROF 705 Professionals and Volunteers in Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NONPROF 795 Introduction to Nonprofit Revenue Streams and Portfolios</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
PUBLIC ADMINISTRATION, MPA (LUBAR SCHOOL OF BUSINESS)

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

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

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements and hold a bachelor's degree from an accredited college or university to be considered for admission.

There are no fixed prerequisites in terms of prior academic training; but background in public administration, American governmental institutions, economics, statistics, and computer applications in social science is beneficial. Each student's academic preparation is evaluated at the time of application. A personal interview may be required.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

The MPA program requirements to be considered for admission are:

1. An undergraduate grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from persons familiar with applicant's academic ability and achievement.
3. Submission of scores on the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).

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

Credits and Courses

The Master of Public Administration degree requires satisfactory completion of 39-42 credits of prescribed graduate study and appropriate coursework.

Minimum Grade Requirements in the Core Courses

In order to demonstrate mastery of the critical Core Course material, MPA students must achieve a grade point average of 3.0 in the six Core Courses, and, regardless of average, students must earn a grade of B- or better in each Core Course. If a grade of C+ or lower is earned in any Core Course, that course must be repeated in an effort to earn the minimum grade of B-. If the student's grade point average in the six Core Courses is below 3.0, the student must repeat one or more Core Courses in which a grade of lower than B was earned in an effort to establish a grade point average of 3.0 in the Core. (For purposes of this requirement, the grade point average for the Core Courses will be calculated on the basis of only the highest grade earned; that is, the grade earned in the first attempt at a Core Course will not be averaged with the grade earned in the repeat.)

Core Requirements

Students entering the MPA program will be placed, at the discretion of the MPA Director, in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A students and 42 credits for Track B students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM/URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 921</td>
<td>Public Service Administrative Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- BUS ADM 441 Diversity in Organizations
- BUS ADM 443 Special Topics in Human Resources Management
- BUSMGMT 706 Managing in a Dynamic Environment
- BUS ADM 737 Managerial Decisions and Negotiations

Tracks

Select Track A or B below

<table>
<thead>
<tr>
<th>Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>15-18</td>
</tr>
<tr>
<td>B</td>
<td>18-21</td>
</tr>
</tbody>
</table>

Capstone

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 959</td>
<td>Capstone Seminar in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 39-42

1 Waived for students with significant experience in the public or nonprofit sector; see Track A.
2 Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

Track A

Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have the Government/Nonprofit Administrative Internship course (PUB ADM 921) waived. Students seeking placement in this track will need to meet with the MPA Director to

Minimum Grade Requirements in the Core Courses

In order to demonstrate mastery of the critical Core Course material, MPA students must achieve a grade point average of 3.0 in the six Core Courses, and, regardless of average, students must earn a grade of B- or better in each Core Course. If a grade of C+ or lower is earned in any Core Course, that course must be repeated in an effort to earn the minimum grade of B-. If the student's grade point average in the six Core Courses is below 3.0, the student must repeat one or more Core Courses in which a grade of lower than B was earned in an effort to establish a grade point average of 3.0 in the Core. (For purposes of this requirement, the grade point average for the Core Courses will be calculated on the basis of only the highest grade earned; that is, the grade earned in the first attempt at a Core Course will not be averaged with the grade earned in the repeat.)

Core Requirements

Students entering the MPA program will be placed, at the discretion of the MPA Director, in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A students and 42 credits for Track B students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
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</tr>
<tr>
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<td>Human Resource Management</td>
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</tr>
<tr>
<td>PUB ADM/URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
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</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 921</td>
<td>Public Service Administrative Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- BUS ADM 441 Diversity in Organizations
- BUS ADM 443 Special Topics in Human Resources Management
- BUSMGMT 706 Managing in a Dynamic Environment
- BUS ADM 737 Managerial Decisions and Negotiations

Tracks

Select Track A or B below

<table>
<thead>
<tr>
<th>Track</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>15-18</td>
</tr>
<tr>
<td>B</td>
<td>18-21</td>
</tr>
</tbody>
</table>

Capstone

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 959</td>
<td>Capstone Seminar in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 39-42

1 Waived for students with significant experience in the public or nonprofit sector; see Track A.
2 Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

Track A

Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have the Government/Nonprofit Administrative Internship course (PUB ADM 921) waived. Students seeking placement in this track will need to meet with the MPA Director to
discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

**Track B**

Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Every student must select and complete the requirements for one of the following three concentrations:

### Municipal Management

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>PUB ADM 730</td>
<td>Budgeting for Public Sector Professionals</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 965</td>
<td>Municipal Management</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI/PUB ADM 914</td>
<td>Seminar in Intergovernmental Relations</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 651</td>
<td>Land Use Planning Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 684</td>
<td>Planning Local Economic Development</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 701 &amp; URBPLAN 702</td>
<td>Introduction to Land Use Planning and Introduction to Planning Law</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select at least 6 elective credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

### General Public Administration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations (if not used to satisfy seminar in organizational management requirement)</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 400</td>
<td>Ethics and Responsibility in Public Administration</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 452</td>
<td>Administrative Law</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 705</td>
<td>Government Public Relations and Advocacy</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI/PUB ADM 914</td>
<td>Seminar in Intergovernmental Relations</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration:</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select at least 6 elective credits 1

Total Credits 18

1 Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

### Nonprofit Organization and Management

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 724</td>
<td>Business Combinations and Governmental Accounting</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 789</td>
<td>Theory and Role of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration:</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select at least 6 elective credits 1

Total Credits 18

1 Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

### Program Requirements

**Major Professor as Advisor**

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

**Thesis**

Not required.

**Time Limit**

The student must complete all degree requirements within seven years of initial enrollment. Students in the MPA/MUP program (see below) are allowed up to seven years to complete all requirements for both degrees.
PUBLIC ADMINISTRATION, MPA/CRIMINAL JUSTICE, MS

Both departments collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice and the MPA program.

Credits and Courses

Students accepted into this MS/MPA program complete the following courses:

M.S. in Criminal Justice

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRM JST 773</td>
<td>Perspectives on Crime and the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 12 additional credits within the criminal justice program 12
Select 12 additional credits with the consent of the student’s advisor 12

Total Credits 33

Master of Public Administration

Students entering the MPA program will be placed, at the discretion of the MPA Director in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A and 42 for Track B.

Track A
Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have PUB ADM 921 waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

Track B
Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following: 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 792</td>
<td>Decision-Making for Nonprofit and Public Organizations</td>
<td></td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td></td>
</tr>
</tbody>
</table>

Capstone

PUB ADM 959 | Capstone Seminar in Public Administration 1 | 3       |

General Public Administration

Select three of the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 400</td>
<td>Ethics and Responsibility in Public Administration</td>
<td></td>
</tr>
<tr>
<td>PUB ADM/URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
<td></td>
</tr>
<tr>
<td>PUB ADM/POL SCI 914</td>
<td>Seminar in Intergovernment Relations</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration:</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 965</td>
<td>Municipal Management</td>
<td></td>
</tr>
<tr>
<td>Concentration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 12 credits in CRM JST 12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Internship

PUB ADM 921 | Public Service Administrative Internship 2 | 3       |

Total Credits 42

1 Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

2 An internship is mandatory for students with no public sector work experience.

Total Degree Credits for Master of Public Administration: 48-51 cr

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.
Program Requirements

Time Limit
Students in the coordinated MS/MPA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
PUBLIC ADMINISTRATION, MPA/URBAN PLANNING, MUP

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

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

Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

Required Courses in Urban Planning (27 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td>2</td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td>6</td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

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

Total Credits 27

Required Courses in Public Administration (18 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Requirements

Comprehensive Exam
Completion of the comprehensive exam in Urban Planning is required. (See Urban Planning)
REAL ESTATE, UNDERGRADUATE CERTIFICATE

The Real Estate Certificate is designed to offer students the opportunity to complement their major field of study with an additional concentration in real estate. Students completing the Real Estate Certificate will have coursework in real estate finance, valuation, environmental real estate issues and property development, as well as real estate law.

This background, when added to a business major, opens career opportunities to students in mortgage banking and commercial real estate lending, commercial leasing and brokerage, appraisal and valuation, real estate investment analysis, and property development and management.

Students may also benefit from becoming student members of the Institute for Real Estate Management (IREM) and the Commercial Association of Realtors Wisconsin (CARW) while pursuing the certificate.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Requirements

The Real Estate certificate is open to all students in good standing seeking a bachelor's degree at the University of Wisconsin-Milwaukee and to all students who have previously received a bachelor's degree from UWM or any other accredited college or university. Business students completing a real estate certificate may utilize the courses as part of their business elective requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 380</td>
<td>Introduction to Real Estate Markets</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 481</td>
<td>Real Estate Finance</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 482</td>
<td>Valuation of Real Estate</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 483</td>
<td>Property Development and Management</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 389</td>
<td>Real Estate Internship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 484</td>
<td>Real Estate Law</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 485</td>
<td>Environmental Issues in Real Estate</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Note: Non-business majors are required to complete ECON 104 in order to fulfill requirements for this certificate. It also is recommended that students complete BUS ADM 201 and BUS ADM 350 prior to taking BUS ADM 481. A business minor also satisfies the prerequisite coursework for non-business students.

All coursework required for the Real Estate Certificate must be completed with at least a 2.5 GPA in order to post the certificate on the transcript. At least half of the credits required for the certificate must be taken in resident at UWM. Real Estate Certificate courses may not be taken on a credit/no credit basis except for BUS ADM 389.
STATE AND LOCAL TAXATION, GRADUATE CERTIFICATE

Admission to the Certificate in State and Local Taxation program is temporarily suspended.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in State and Local Taxation. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor’s degree with an overall GPA of 2.75 or better.

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

Credits and Courses

Students wishing to earn the Certificate must complete the required 12 graduate credit hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 831</td>
<td>Multistate Income Taxation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 832</td>
<td>Property Taxation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 837</td>
<td>Sales and Use Taxation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 838</td>
<td>Managing State and Local Audits</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

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

Supply Chain and Operations Management (SCOM) examines the key business processes that take place from “step one” through delivery to the customer. Supply chain management is the integration of all key business processes from original suppliers through end users, and provides products, services, and information that add value for customers and other stakeholders. It includes the supply, storage, and movement of materials, information, personnel, equipment, and finished goods within the organization and between the organization and its environment.

The operations function, within the supply chain, relates to the creation of goods and services through efficient and effective use of personnel, material, and machines, and includes acquisition of resources, planning of production and inventory levels, scheduling of work assignments, and the control of production and quality. Recent concepts in supply chain and operations management include lean operations, Six Sigma, ERP, and mass customization.

Technology is one of the most important facets in supply chain, and the Lubar program emphasizes information technology management, including enterprise resource planning. Other important components include product development lean operations, Six Sigma, and mass customization.

Companies in all sectors of the economy - public and private, manufacturing service, health care, retail and others - recruit SCOM graduates to help them identify competitive issues in the supply chain and develop innovative solutions.

Requirements

Students admitted to a Business major Fall 2012 and after

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advancement to Major</td>
<td>(p. 421)</td>
<td></td>
</tr>
<tr>
<td>General Education Requirements (p. 421)</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Business Foundation Courses (p. 422)</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Business Core (p. 422)</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>SCOM Major Requirements (p. 422)</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Business Electives</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>123</td>
<td></td>
</tr>
</tbody>
</table>

Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attain Junior standing (56 credits)</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>Satisfy Oral and Written Communication requirement (Part A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td></td>
</tr>
<tr>
<td>Or place high enough on the English Placement Test</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satisfy Quantitative Literacy requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

Lubar School of Business General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Oral and Written Communication
| ENGLISH 102 | College Writing and Research (or equivalent) | 1 |
| ENGLISH 205 | Business Writing                     | 3 |
| Quantitative Literacy
| Select one of the following:
| MATH 105 | Introduction to College Algebra         | 1 |
| MATH 108 | Algebraic Literacy II                   | 1 |
| Or equivalent course
| MATH 211 | Survey in Calculus and Analytic Geometry | 4 |

LWM Foreign Language Requirement

Complete Foreign Language Requirement through: 1
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

LWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy LWM’s Cultural Diversity requirement

1 Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

2 Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

3 Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104). Students completing a Human Resources major must complete PSYCH 101.

4 Excluding MATH 211, MATH 221, or MATH 231.
Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 105</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 20

1 A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 372) should enroll in the equivalent BUS ADM 207 course.
2 A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students interested in the Business Scholars Program (p. 372) should consider the equivalent BUS ADM 231 course.

Business Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics (Business Scholars course option)</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 302</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 391</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 600</td>
<td>Management Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

International Business Component

Complete one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456</td>
<td>International Financial Management</td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics:</td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
</tr>
<tr>
<td>BUS ADM 541</td>
<td>Cross-Cultural Management</td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments</td>
</tr>
</tbody>
</table>

Total Credits: 28

1 Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.
2 Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.
3 A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 475</td>
<td>Operations Planning and Control</td>
<td>12</td>
</tr>
<tr>
<td>BUS ADM 476</td>
<td>Logistics and Transportation Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 477</td>
<td>Purchasing and Supply Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 478</td>
<td>Supply Chain Analytics</td>
<td></td>
</tr>
</tbody>
</table>

Electives: 6

Select two courses from the following list:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance</td>
</tr>
<tr>
<td>BUS ADM 460</td>
<td>Retail Management</td>
</tr>
<tr>
<td>BUS ADM 466</td>
<td>Business to Business Sales and Marketing</td>
</tr>
<tr>
<td>BUS ADM 472</td>
<td>Special Topics in Supply Chain and Operations Management: (subtitle)</td>
</tr>
<tr>
<td>BUS ADM 479</td>
<td>Supply Chain &amp; Operations Management Professional Internship</td>
</tr>
<tr>
<td>BUS ADM 537</td>
<td>Enterprise Systems Concepts and Issues</td>
</tr>
<tr>
<td>BUS ADM 538</td>
<td>Business Process Integration</td>
</tr>
<tr>
<td>BUS ADM 571</td>
<td>Quality and Six Sigma Tools</td>
</tr>
<tr>
<td>BUS ADM 577</td>
<td>Supply Chain Applications, Policy, &amp; Strategy</td>
</tr>
<tr>
<td>BUS ADM 576</td>
<td>Enterprise Planning in the Supply Chain</td>
</tr>
</tbody>
</table>

Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 567</td>
<td>Enterprise Planning in the Supply Chain</td>
</tr>
</tbody>
</table>

Total Credits: 21

Note: The SCOM major required courses represent foundational material for the APICS CPIM certification preparatory course.

Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 12 credits in the Lubars School of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Credits: 12
General Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>1</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>1</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>1</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>1</td>
</tr>
</tbody>
</table>

Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:

Foreign Language credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 300</td>
<td>Career and Professional Development</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Total Credits 18

Degree Completion Requirements

Credits

A minimum of 123 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubars School’s Policies and Regulations (p. 328). The Accounting major may not be completed as a second undergraduate degree.

Double Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans.

Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (http://uwm.edu/business/academics/undergrad/academic-advising) All students should meet with an academic advisor at least once a semester.

Career Services

The Lubars School of Business also features a dedicated Career Services Center (http://uwm.edu/business/academics/career-services) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

Honors in the Lubars School of Business

Beta Gamma Sigma (http://uwm.edu/business/academics/student-organizations) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 372).

Dean’s Honor List

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
TECHNOLOGY ENTREPRENEURSHIP, UNDERGRADUATE CERTIFICATE

Note: Admission to the Undergraduate Certificate in Technology Entrepreneurship is suspended effective Fall 2017.

The online Certificate in Technology Entrepreneurship is designed for business or engineering students who desire a sequence of undergraduate level courses that focus specifically on Technology Entrepreneurship and that are delivered through an online instructional environment. The focus of the certificate is to prepare students to meet the growing global need for individuals who can think innovatively and successfully pursue the commercialization of their innovative ideas and technological solutions, either independently or within the confines of an established organization. Students who complete this certificate will gain a substantial competitive edge in pursuing a career either as an engineer or as a business specialist by combining their entrepreneurial skills and capabilities with their particular field of expertise. The program will prepare students for fast-track leadership positions in technology-based and/or manufacturing companies.

For more information regarding the application process, business majors may contact Undergraduate Student Services (LUB N297) or call 414-229-5271, and CEAS majors may contact the Student Advising Office (EMS E386) or call 414-229-4667.

Eligibility
Students currently enrolled in a UWM business or engineering undergraduate program (or at any other accredited engineering or business baccalaureate program) are eligible to earn the Certificate in Technology Entrepreneurship. This certificate is also open to business and engineering graduates.

Requirements
In addition, to fulfill graduation requirements, students will complete pre-approved, zero-credit professional activities.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM/MECHENG 542</td>
<td>Introduction to Technology Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM/MECHENG 543</td>
<td>Introduction to Technology Management and Innovation</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM/MECHENG 544</td>
<td>New Product Development</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM/MECHENG 546</td>
<td>Global Innovation Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM/MECHENG 548</td>
<td>Technology Venturing Project</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Note: A maximum of 6 credits from the Undergraduate Certificate in Technology Entrepreneurship may also count toward other UWM undergraduate degrees.

Graduation Requirements
Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. Students must complete all certificate courses within 3 years of initial enrollment in the certificate program.
TECHNOLOGY ENTREPRENEURSHIP, GRADUATE CERTIFICATE

Admission to the Technology Entrepreneurship graduate certificate program is temporarily suspended.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Technology Entrepreneurship. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor’s degree with an overall GPA of 2.75 or better.

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

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 544</td>
<td>New Product Development</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 546</td>
<td>Global Innovation Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 741</td>
<td>Management of Technology Ventures</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 742</td>
<td>Technology Innovation and Corporate Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 743</td>
<td>Technology Entrepreneurship Project</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, to fulfill graduation requirements, students will complete pre-approved zero-credit professional activities.

Certificate Requirements

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
The School of Education prepares educators for careers in schools as well as non-school settings such as business, industry, and community agencies. Faculty provides consultation and in-service assistance to school systems at the local and national levels. Current practitioners have opportunities for professional development and can broaden their expertise through in-service work and enriched study. The School of Education offers an array of Bachelor of Science (BS) Programs, five Master’s Degree Programs, and Wisconsin’s only PhD in Urban Education.

Programs in the School of Education prepare students for professional roles in public schools that are approved by the Wisconsin Department of Public Instruction (DPI).

The School of Education offers undergraduate certificates that can enhance professional development. Certificates consist of focused coursework designed to provide targeted academic preparation. Certificate programs are available to all UWM undergraduates and to those who already hold a bachelor’s degree from any institution.

### Programs of Study Leading to Certification

#### Early Childhood Level
Teachers are prepared to teach at the approximate ages of birth through 8.

#### Middle Childhood Through Early Adolescence Level
Teachers are prepared to teach pupils at the approximate ages of 6 through 12 or 13. Students who are interested in pursuing exceptional education certification have the option of doing so as a fifth year post-baccalaureate student.

#### Early Adolescence Through Adolescence Level
Teachers are prepared to teach pupils at the approximate ages of 10 to 21. Several teaching subjects, such as English, mathematics, science, and social studies, fall into this licensure category.

#### Early Childhood Through Adolescence Level
Teachers are prepared to teach at the ages of birth through 21. Several teaching subjects, such as world languages and English as a Second Language, fall into this licensure category.

#### Exceptional Education
Teachers are prepared to work at the early childhood, middle childhood through early adolescence, and early adolescence through adolescence levels. The Deaf and Hard of Hearing program prepares students for teaching early childhood through adolescence.

#### Other School Service Positions
Reading teacher, school counselor, school psychologist, school administrator.

### Non-Certification Programs

#### Community Engagement and Education
A non-certification bachelor’s degree program for community-based educators. For admission and program information, contact the Office of Student Services at (414) 229-4721.

#### Interpreter Training Program (ITP)
Offered through the Department of Exceptional Education, this program prepares students to meet the needs of deaf and hard of hearing individuals in a variety of settings. It is available as part of an undergraduate bachelor’s degree or as a second degree. Contact the Office of Student Services at (414) 229-4721.

#### American Sign Language Studies
Offered through the Department of Exceptional Education, the ASL Studies program provides a rich educational experience that allows for students to develop both linguistic proficiency and a deep respect for the Deaf culturo-linguistic community. For information, contact the Office of Student Services at (414) 229-4721.

### DPI Certification Programs in Other Schools and Colleges

Specific degree programs are managed by schools and colleges outside of the School of Education. The certification process is handled by the School of Education.

#### Fine Arts Education
Programs leading to a Bachelor of Fine Arts degree with certification to teach art, dance, music, or theater are offered by the Peck School of the Arts. For additional information, contact the office of the Administrator of Student Affairs, Peck School of the Arts. Post-baccalaureate programs are available in art, music, dance, and theater.

#### Communication Sciences and Disorders
State certification as a speech pathologist requires completion of a master’s degree. Work toward this license should be started at the undergraduate level. Undergraduate students, as well as those who already hold a bachelor’s degree, should contact the Department of Communication Sciences and Disorders in the College of Health Sciences.

#### Instructional Library Media
The School of Information Studies, in collaboration with the School of Education, offers post-baccalaureate programs leading to State of Wisconsin licensing as Initial Instructional Library Media Specialist and Instructional Library Media Supervisor.

#### School Social Work
The Helen Bader School of Social Welfare, in conjunction with the School of Education, offers a program leading to State of Wisconsin licensing as a school social worker.

#### Continuing Education for Teachers
Teachers who need to earn credits to renew a teaching license to meet local school system or state Department of Public Instruction requirements should contact the Office of Student Services at (414) 229-4721 for information and admission.

### Programs

#### Adult, Continuing, and Higher Education (p. 431)
- Administrative Leadership, MS: Adult, Continuing, and Higher Education Administration (p. 438)
- Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL) (p. 621)
- Support Services for Online Students in Higher Education, Graduate Certificate (p. 444)
- Teaching and Learning in Higher Education, Graduate Certificate (p. 446)
- Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership) (p. 443)

**American Sign Language**
- Education, BS: American Sign Language Studies (p. 449)
- Education, BS: Interpreter Training Program (p. 451)
- American Sign Language Studies, Minor (p. 448)

**Community Education (p. 454)**
- Community Engagement and Education, BS (p. 463)
- Community Engagement and Education, BS: Child and Family Services (p. 465)
- Community Engagement and Education, BS: Child Care (p. 468)
- Community Engagement and Education, BS: Community Leadership (p. 470)
- Community Engagement and Education, BS: Community-Based Organizations: Policy and Leadership (p. 473)
- Community Engagement, Minor (p. 478)
- Cultural Foundations of Community Engagement and Education, MS (p. 481)
- Urban Education, PhD: Multicultural Studies (p. 638)
- Urban Education, PhD: Social Foundations of Education (p. 640)
- Community Engagement, Undergraduate Certificate (p. 476)
- Community Leadership, Undergraduate Certificate (p. 479)
- Community-Based Organizations: Policy and Leadership, Undergraduate Certificate (p. 480)
- Youth Work, Undergraduate Certificate (School of Education, Department of Educational Policy and Community Studies) (p. 483)
- Educational Policy, Graduate Certificate (p. 482)

**Counseling (p. 485)**
- Educational Psychology, PhD: Counseling Psychology (p. 508)
- Educational Psychology, MS: Clinical Mental Health Counseling (p. 499)
- Educational Psychology, MS: School Counseling (p. 503)
- Trauma Informed Care, Graduate Certificate (p. 522)
- Counseling, Minor (p. 499)

**Early Childhood Education (p. 524)**
- Education, BS: Early Childhood (p. 584)
- Curriculum and Instruction, MS: Early Childhood Education (p. 560)
- Urban Education, PhD: Curriculum and Instruction (p. 627)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)

**Educational Administration (p. 431)**
- Administrative Leadership, MS: Educational Administration and Supervision (p. 440)
- Urban Education, PhD: Educational Administration (p. 629)
- Administrative Leadership Specialist, Graduate Certificate (p. 441)
- Educational Studies, BS (p. 442)

**Educational Statistics and Measurement (p. 485)**
- Educational Psychology, PhD: Educational Statistics and Measurement (p. 511)
- Educational Psychology, MS: Educational Statistics and Measurement (p. 501)

**English Education (p. 524)**
- Education, BS: Early Adolescence - Adolescence Level: English (p. 580)
- Curriculum and Instruction, MS: English Education: Creative Writing (p. 561)
- Curriculum and Instruction, MS: English Education: Language and Linguistics (p. 562)
- Curriculum and Instruction, MS: English Education: Literary Studies (p. 563)
- Curriculum and Instruction, MS: English Education: Modern Studies (p. 564)
- Curriculum and Instruction, MS: English Education: Professional Writing (p. 565)
- Curriculum and Instruction, MS: English Education: Rhetoric and Composition (p. 566)
- Urban Education, PhD: Curriculum and Instruction (p. 627)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)

**Interdisciplinary**
- Curriculum and Instruction, MS: Cultures and Communities Education (p. 559)
- Arts Integration and Learning, Undergraduate Certificate (School of Education) (p. 554)
- Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership) (p. 443)
- Urban Education, PhD: Art Education (p. 624)

**Learning and Development (p. 485)**
- Educational Psychology, PhD: Learning and Development (p. 513)
- Educational Psychology, MS: Learning and Development (p. 502)

**Mathematics Education (p. 524)**
- Education, BS: Early Adolescence - Adolescence Level: Math (p. 571)
- Curriculum and Instruction, MS: Mathematics Education (p. 566)
- Curriculum and Instruction, MS: Mathematics Teacher Leadership (p. 567)
- Urban Education, PhD: Mathematics Education (p. 635)
- Mathematics Teacher Leadership, Graduate Certificate (p. 613)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)

**Middle Childhood-Early Adolescence Education (p. 524)**
- Education, BS: Elementary Education (p. 596)
- Curriculum and Instruction, MS (p. 570)
- Urban Education, PhD: Curriculum and Instruction (p. 627)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)

**Reading Education (p. 524)**
- Curriculum and Instruction, MS: Reading Education (p. 568)
- Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate (p. 612)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)
School Psychology (p. 485)
- Educational Psychology, PhD: School Psychology (p. 506)
- Educational Psychology, MS: School Psychology (p. 504)
- School Psychology, EdS (p. 521)
- Children's Mental Health for School Professionals, Graduate Certificate (p. 498)

Science Education (p. 524)
- Education, BS: Early Adolescence - Adolescence Level: Science (p. 574)
- Curriculum and Instruction, MS: Science Education (p. 569)
- Urban Education, PhD: Curriculum and Instruction (p. 627)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)

Social Studies Education (p. 524)
- Education, BS: Early Adolescence - Adolescence Level: Social Studies (p. 577)
- Curriculum and Instruction, MS: Urban Social Studies (p. 570)
- Urban Education, PhD: Curriculum and Instruction (p. 627)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)

Second Language Education (p. 524)
- Education, BS: Early Childhood-Adolescence: World Language (p. 590)
- Education, BS: Early Childhood-Adolescence: English as a Second Language (p. 587)
- Bilingual Education (Supplemental), Minor (p. 558)
- English as a Second Language, Minor (p. 600)
- World Language, Minor (p. 615)
- Curriculum and Instruction, MS (p. 570)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)

Special Education (p. 524)
- Exceptional Education, BS: Early Childhood (p. 604)
- Exceptional Education, BS: Middle Childhood - Early Adolescence (p. 607)
- Exceptional Education, BS: Early Adolescence - Adolescence (p. 601)
- Education, BS: Inclusion and Accessibility Studies (p. 594)
- Inclusion and Accessibility Studies, Minor (p. 611)
- Exceptional Education, MS (p. 609)
- Urban Education, PhD: Exceptional Education (p. 632)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)
- Autism Spectrum Disorders, Graduate Certificate (p. 556)
- Autism Spectrum Disorders, Undergraduate Certificate (p. 557)
- Assistive Technology and Design, Graduate Certificate (p. 555)
- Transition for Students with Disabilities, Graduate Certificate (p. 614)

Urban Education (p. 619)
- Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL) (p. 621)
- Urban Education, PhD: Art Education (p. 624)
- Urban Education, PhD: Curriculum and Instruction (p. 627)
- Urban Education, PhD: Educational Administration (p. 629)
- Urban Education, PhD: Exceptional Education (p. 632)
- Urban Education, PhD: Mathematics Education (p. 635)
- Urban Education, PhD: Multicultural Studies (p. 638)
- Urban Education, PhD: Social Foundations of Education (p. 640)

Advisors provide students with the academic advice and information that will assist them in completing degree programs and becoming professionals in urban education. Advisors are available on a walk-in basis, by appointment, by phone, or online.

Undergraduate Advising
Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment
Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Transfer Student Not Yet Enrolled at UWM?
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

Graduate Advising
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact...
Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

**Graduate Policies and Regulations**

The Graduate School policies and regulations can be found at Graduate School Policies (p. 22). Please refer to the specific program for program policies and regulations.

**Undergraduate Policies and Regulations**

**Academic Regulations**

For information on academic actions for unsatisfactory grades, see Academic Policies (p. 27), University-Wide Academic Action Policy.

**Application Submission and Review**

Application periods for admission vary by program. Most programs have September and January deadlines. Contact the Office of Student Services each semester for details.

All applications are reviewed by faculty of the appropriate department. If admission is deferred or denied, the student may consult with the appropriate department chairperson and/or request a hearing under appeals procedures. The School of Education reserves the right to limit admission due to staffing and space limitations. Enrollment as a pre-education student and/or meeting the minimum requirements does not guarantee admission to a professional education major in the School of Education.

A student who transfers from one program to another within the School must re-apply and meet requirements in effect for that program at the time of transfer.

**Re-entering Students**

Students who do not maintain continuous enrollment/registration at the university should meet with their advisor upon re-entry. It is possible that the program requirements were revised in their absence.

If a student is out for more than one full semester (not including Summer Session), the student must meet the program and graduation requirements in effect at the time of his or her return. Options will be discussed on a case-by-case basis.

An admitted student who has not been enrolled for two or more semesters may be required to re-apply for admission. Students admitted into the post-baccalaureate program have five years from the semester of admission to complete their program.

**Post-Baccalaureate Certification Program**

Students who already hold a bachelor's degree and seek certification must meet the following minimum criteria when submitting an application: completion of a bachelor's degree, a cumulative undergraduate grade point average of 2.5, and passing basic skills test scores. Applicants to the Early Adolescence Through Adolescence programs are required to have a minimum GPA of 2.75 in their majors.

Students interested in a post-baccalaureate certification program in Curriculum and Instruction will be denied admission if they have a grade of C- or below in any prior student teaching experience, or if they have been previously counseled out of student teaching and/or have graduated without certification from a teacher education program because of poor performance in student teaching.

Additional criteria may be required for some programs. For specific admission and program information, contact the Office of Student Services.

Please refer to specific programs for additional information on program admission requirements.

**Advisement Report**

Students who have been admitted to a major will have an Advisement Report indicating course requirements completed as well as those needed. The Advisement Report assists students in planning future semesters, and is one of the documents used in clearing Education students for graduation. Community Engagement and Education students contact the Department of Educational Policy and Community Studies for their summaries and graduation clearance.

**Enrollment Plans for Undergraduate Programs**

Community Engagement and Education students enroll in the School of Education through the Department of Educational Policy and Community Studies. Students planning to major in Educational Studies or in any teacher education program register as pre-education students. They follow the general curriculum requirements of their proposed major in the School of Education and are advised by faculty and staff in the School. All academic actions such as adds, drops, permission to continue, withdrawals, etc., are approved by designated staff in the School of Education.

**Requirements**

**Individual Program Requirements**

Specific program requirements are listed in each program section. To be admitted, students must apply to and be accepted into a specific program. Academic major/minor forms for Early Adolescence Through Adolescence education majors and proposal forms for all other programs require the faculty advisor’s signature prior to submitting the application to be accepted into a specific program. Applicants should follow specific admission procedures for their program.

**Substitution for Requirements**

Any variations from the approved curriculum in the student’s program must be approved in writing by the student’s faculty advisor, department chair, and the Associate Dean for Academic Affairs. This must be done in advance of course selection.

**Degree Requirements**

1. Satisfactory completion of a minimum of 128 credits or 120 credits, depending on program and the requirements of the student's curriculum.

2. Satisfactory completion of the School of Education core curriculum requirements and the University's General Education Requirements. See individual department and program general education core curriculum requirements for the credits required and the distribution.

3. For professional education certification programs, a minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted.
towards certification at UWM, as well as any grades earned in student teaching or field experiences. General education coursework and/or electives that do not fulfill requirements towards certification will not be included in the cumulative GPA calculation.

4. Completion of the last year of work (30 credits) in residence at UW-Milwaukee. Special permission to earn credits on another campus of the UW System, at another institution, or through correspondence work from the UW Extension must be obtained in advance. Students should meet with their academic advisor. Students who transfer to UWM from any accredited institution must take a minimum of 18 hours of graded credits at UWM to establish a GPA for graduation.

Change in Requirements
When a change in program or graduation requirements is adopted, students currently enrolled may complete either the new requirements or those in effect at the time of their admission to the School of Education, but not a combination. Changes in state requirements for teacher certification may lead to changes in requirements in a student’s program. Satisfaction of state requirements is necessary for eligibility for teacher certification.

Semester Course Load
An overload for undergraduate and special students in the School of Education is 18 or more credit hours during a regular semester. Students who want to take an overload during a regular semester should contact their academic advisor.

Any student in the School of Education who takes an unapproved overload will not be permitted to count the overload credits toward graduation and/or certification. The particular credits that would not be counted toward graduation will be designated by the student’s advisor and approved by the Associate Dean for Academic Affairs.

Field Experience
Students are required to complete a full-day/full-semester student teaching experience during the final year in the teacher education program. However, many programs require more than one semester of student teaching. For information, please call (414) 229-4352.

Employment, Licensing, or Professional Organization Requirements
Applicants to School of Education programs that involve student teaching, practicum, internship, or other field placements must complete an information disclosure statement and be subject to a criminal background check to comply with placement site requirements and state regulations. Criminal background checks are required by state law to help employers and government officials in making employment and licensing decisions. The Wisconsin Department of Public Instruction (DPI) conducts a check as part of licensing. Agencies regulated by the Division of Health and Family Services must have on file a criminal background check for persons who have access to clients within caregiving organizations, including students.

Students in a program with a clinical experience must undergo a criminal background check at the time of admission to the School of Education, or prior to placement in a major clinical experience if that occurs earlier. The student will be charged the cost of the background check administered through School of Education procedures. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Contact the Office of Clinical Experiences for further details.

Wisconsin Department of Public Instruction (DPI) License Application
Forms and information about applying for a teaching license may be obtained from the Office of Student Services, Enderis Hall, Room 209, or by calling (414) 229-4153.

A departmental recommendation for certification is required. This recommendation is not automatic upon graduation or completion of a post-baccalaureate certification program. After all program requirements have been completed, a student may submit a license application to the Office of Student Services, Enderis 209, for processing.

The DPI conducts a criminal background check of each applicant for a teaching license. If you have ever lived, worked, or attended school outside of Wisconsin since the age of 18, you are also required to complete fingerprint cards as part of your criminal background check. Based on this information, an applicant may be denied a license even if recommended for certification by the University. The DPI takes 12 to 16 weeks to process an endorsed license.

Special Opportunities
Departmental Examinations
Departments may grant degree credit to a student who, instead of taking a course, requests and passes an examination administered by the department on the content of that course.

Permission to take such examinations must be obtained from the Associate Dean for Academic Affairs, Enderis Hall 583, who will require a recommendation from the department chairperson or program director to whom evidence of work justifying an examination must be presented by the student.

Study Abroad
Qualified students can complete equivalent coursework in another country. For information, consult the Office of Student Services, Enderis Hall 209.

Administration
Alan Shoho
Dean
Hope Longwell-Grice
Associate Dean, Academic Affairs
Jeremy Page
Assistant Dean, Office of Student Services

Contact Information
Office of Student Services
Enderis Hall, 209
Phone: (414) 229-4721
http://uwm.edu/education/
**Administrative Leadership**

The Department of Administrative Leadership has master's and doctoral specializations in Adult, Continuing, and Higher Education and related certificates at the graduate level.

The Adult, Continuing, and Higher Education Leadership master's specialization prepares students for positions of leadership in a wide range of post-secondary programs, including vocational and technical education, university extension, continuing education, training and human resource development, instructional design, instructional technology, adult basic education, adult literacy, and community education.

The primary mission of the specialization in Adult, Continuing, and Higher Education Leadership (ACHEL) doctoral specialization in Urban Education is to prepare individuals for leadership positions in urban adult, continuing, and higher educational organizations. The specialization will assist students to examine changing perspectives on urban postsecondary, adult and continuing educational organizations; changing notions of urban adult, continuing, and higher education teaching and learning; and the changing roles of the students, teachers, researchers, and administrators who work and study within urban adult, continuing, and higher education organizations.

**Programs**

- Administrative Leadership Specialist, Graduate Certificate (p. 441)
- Administrative Leadership, MS (p. 441)
- Administrative Leadership, MS: Adult, Continuing, and Higher Education Administration (p. 438)
- Administrative Leadership, MS: Educational Administration and Supervision (p. 440)
- Educational Studies, BS (p. 442)
- Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership) (p. 443)
- Support Services for Online Students in Higher Education, Graduate Certificate (p. 444)
- Teaching and Learning in Higher Education, Graduate Certificate (p. 446)

**Administrative Leadership Courses**

**AD LDSP 297 Study Abroad:**
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
**Prerequisites:** jr st; cons instr; acceptance for Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AD LDSP 497 Study Abroad:**
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
**Prerequisites:** jr st; cons instr; acceptance for Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AD LDSP 507 Introduction to Group Leadership**
3 cr. Undergraduate/Graduate.
Concepts and theories of group and organizational leadership applied to problems of youth-serving organizations and student activities in secondary and post-secondary schools and colleges.
**Prerequisites:** jr st.
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AD LDSP 517 Introduction to Adult Education Practice**
3 cr. Undergraduate/Graduate.
Objectives, organization and practices of postsecondary programs of lifelong learning, adult and continuing education, and community and public service programs.
**Prerequisites:** jr st.
**Last Taught:** Fall 2016, Fall 2015, Fall 2012, Fall 2010.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AD LDSP 537 Leadership and Management of Volunteer Programs**
3 cr. Undergraduate/Graduate.
Introduction to volunteers and organizations which utilize them. Course emphasizes practical application of leadership skills needed for effective management and training of volunteers.
**Prerequisites:** jr st.
**Last Taught:** Spring 2018, Spring 2016, Spring 2014, Spring 2010.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AD LDSP 547 The Educational Dimensions of Practice with Older Adults**
3 cr. Undergraduate/Graduate.
Current problems, issues and research relating to the development and organization of educational programs for older adults.
**Prerequisites:** jr st.
**Last Taught:** Spring 2015, Spring 2013, Spring 2011, Spring 2009.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AD LDSP 557 Foundations and Philosophy of WTCS in Wisconsin**
3 cr. Undergraduate/Graduate.
History, philosophy, objectives, organization and legal bases for vocational education, with special emphasis given the movement in Wisconsin.
**Prerequisites:** jr st or vocational teachers or cons instr.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AD LDSP 567 Supervision and Planning for Vocational and Technical Education**
3 cr. Undergraduate/Graduate.
Social, economic, philosophical, and historical foundations of career education. Exploration of past, present and projected models. Strategies for program selection, community involvement, evaluation and management.
**Prerequisites:** jr st or cons instr.
**Last Taught:** Fall 2013, Fall 2009, Fall 2007, Fall 2005.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
AD LDSP 577 Adult Literacy and Workforce Development
3 cr. Undergraduate/Graduate.
Analyzes the problem of adult low literacy and its effects on workforce development; presents alternative procedures for providing educational programs.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AD LDSP 579 Current Topics in Administrative Leadership:
1-3 cr. Undergraduate/Graduate.
Current problems, issues and research in administrative leadership and supervision and their implications for practitioners.
Prerequisites: jr st.
Course Rules: May be repeated w/chg in topic to max of 9 cr.
Last Taught: Fall 2011, Spring 2011, Fall 2010, Summer 2010.
Current Offerings: http://uwm.edu/schedule

AD LDSP 581 Administration and Supervision in Early Childhood Programs
3 cr. Undergraduate/Graduate.
Analyzes, from a quality perspective, the administrative roles and responsibilities of various early care and education programs, and the groups with whom they have relationships.
Prerequisites: jr st.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

AD LDSP 582 Operations Management in Early Childhood Programs
3 cr. Undergraduate/Graduate.
An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.
Prerequisites: jr st; Ad Ldsp 581(P); or cons instr.
Course Rules: Jointly offered with & counts as repeat of Ed Pol 582.
Current Offerings: http://uwm.edu/schedule

AD LDSP 583 Financial Management and Planning in Early Childhood Programs
3 cr. Undergraduate/Graduate.
Identifies the principles of sound financial management and develops the ability to apply those principles to the financial planning and management of early childhood programs.
Prerequisites: jr st & Ad Ldsp 581(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 586 Administrative Seminar: Leadership in Early Childhood Programs
3 cr. Undergraduate/Graduate.
Integrates and applies the concepts and skills acquired in the first five courses as demonstrated in the development of a major project by each student.
Prerequisites: jr st & Ad Ldsp 581(P); Ad Ldsp 582(P) or Ed Pol 582(P); Ad Ldsp 583(P); Ed Pol 584(P); Currins 585(P).
Current Offerings: http://uwm.edu/schedule

AD LDSP 587 Serving Multicultural and Special Needs Learners
3 cr. Undergraduate/Graduate.
Examines the needs of multicultural and adult vocational special needs learners; explores strategies for revising instructional methods/ approaches and program development.
Prerequisites: jr st.
Last Taught: Fall 2012, Fall 2010, Fall 2008, Fall 2006.
Current Offerings: http://uwm.edu/schedule

AD LDSP 591 Early Childhood Leadership: The Personal Disposition of a Leader
3 cr. Undergraduate/Graduate.
Leadership definitions and skills and the role of vision, emotional intelligence, resilience, optimism and reflective practice for successful early childhood leaders.
Prerequisites: jr st; completion of childcare credential or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 592 Early Childhood Leadership: Leading in Your Program
3 cr. Undergraduate/Graduate.
Leadership roles, responsibilities and skills necessary for leadership in staff development and excellence in early childhood programs.
Prerequisites: jr st; completion of childcare credential or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 593 Early Childhood Leadership: Leading in Your Community and the Field
3 cr. Undergraduate/Graduate.
Leadership skills necessary for leadership in communities and the profession with a focus on collaboration, interconnections, relationships, transformation and advocacy.
Prerequisites: jr st; completion of childcare credential or cons instr.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

AD LDSP 594 Early Childhood Leadership: Leading for Change
3 cr. Undergraduate/Graduate.
Transformational leadership, theories on change, action research, and advocacy strategies. Completion of action research project to effect change.
Prerequisites: jr st; completion of childcare credential or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 597 Program Development in Occupational Education
3 cr. Undergraduate/Graduate.
Technical, administrative, organizational, and participatory skills and knowledge associated with program development in occupational education for adults and adolescents.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AD LDSP 598 Introduction to Workforce Education and Development
3 cr. Undergraduate/Graduate.
Foundations of workforce education and development; nature and role of education in preparing individuals for work.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule
AD LDSP 605 Survey of Human Resource Development
3 cr. Undergraduate/Graduate.
Introduction to human resource development theories, principles, concepts, and practices.
Prerequisites: sr st.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

AD LDSP 607 Coordination of Staff Development and Training Program
3 cr. Undergraduate/Graduate.
Provides knowledge and skills required for the design, coordination and administration of staff development and training programs.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AD LDSP 617 Leadership in Youth-Serving Organizations
3 cr. Undergraduate/Graduate.
Introduction to the philosophy and operations of youth-serving organizations, administration of programs, and the role of youth-serving organizations in the larger community.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 630 Field Work in Schools, Agencies and Institutions
2-6 cr. Undergraduate/Graduate.
Field inquiry and experience in applied problems of administrative leadership in school administration, supervision or adult education in conjunction with seminar sessions to relate theory to practice.
Prerequisites: Ad Ldsp 517(P) or 702(P) or 757(657)(P); cons instr.
Course Rules: May be retaken to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 631 Emerging Research in Human Resource Development
3 cr. Undergraduate/Graduate.
Examines the role of research in Human Resource Development (HRD).
Prerequisites: jr st.
Course Rules: Counts as repeat of Ad Ldsp 779 with similar title.
Last Taught: Spring 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 632 International Cross-Cultural Experiences in Developing Human Resources
3 cr. Undergraduate/Graduate.
Examining Human Resource Development (HRD) in international and global contexts.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ad Ldsp 779 with similar title.
Current Offerings: http://uwm.edu/schedule

AD LDSP 647 Evaluation of Adult, Continuing, and Higher Education Programs
3 cr. Undergraduate/Graduate.
Provides an awareness, analysis, and synthesis of the purposes, methods, and procedures for evaluating diverse types of adult, continuing, and higher education programs, e.g., HRD, extension/outreach, etc.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ad Ldsp 579 with similar title.
Current Offerings: http://uwm.edu/schedule

AD LDSP 667 Program Planning in Adult Education
3 cr. Undergraduate/Graduate.
Focus on planning, execution, and evaluation dimensions of the programming process.
Prerequisites: jr st; Ad Ldsp 517(P) or 757(657)(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 687 Instructional Design and Teaching Strategies
3 cr. Undergraduate/Graduate.
Using an instructional design approach, students develop skills in selecting, using, and evaluating instructional strategies and procedures as appropriate to particular domains of adult learning.
Prerequisites: jr st; Ad Ldsp 517(P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

AD LDSP 691 Leadership Ethics in Multicultural Organizations
1 cr. Undergraduate/Graduate.
Introduction to the concept of ethics and leadership in multicultural organizations.
Prerequisites: jr st
Course Rules: Counts as repeat of Ad Ldsp 579 with similar title.
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 692 Quality Management in Education
1 cr. Undergraduate/Graduate.
Introduction to the principles of quality management in education.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ad Ldsp 579 with same topic.
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 693 Decision Making in Multicultural Organizations
1 cr. Undergraduate/Graduate.
Introduction to individual planning and decision making in multicultural organizations.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ad Ldsp 579 with title 'Planning and Decision Making Skills'.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

AD LDSP 702 Leadership in Educational Organizations
3 cr. Graduate.
Governance, social, political, and economic influences; theories of organizations and organizational behavior related to the administration of elementary and secondary schools.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

AD LDSP 703 Resources for Self-directed Learning
1 cr. Graduate.
Resources for self-directed learning to help students succeed in online courses and programs.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
AD LDSP 704 Technologies for Online Student Support
1 cr. Graduate.
Synchronous and asynchronous technologies for conducting online sessions for advising, teaching, academic, and student support.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

AD LDSP 706 Professional Development for Online Instruction
1 cr. Graduate.
Prepares both current and future instructors of adults to understand online instruction as it relates to pedagogy, professional development, and institutions.
Prerequisites: grad st; Ad Ldsp 757.
Last Taught: Summer 2017, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

AD LDSP 707 Using Technology With Adult Learners
3 cr. Graduate.
Design and management of web-based instructional programs/classes applying principles of instructional design, media, and software applications for adult learners.
Prerequisites: grad st; Ad Ldsp 757.
Current Offerings: http://uwm.edu/schedule

AD LDSP 708 Online Support Services in Adult, Continuing, and Higher Education
3 cr. Graduate.
Assessment of trends, theory, and research for online student support; development of a plan for an online student support program.
Prerequisites: grad st; Ad Ldsp 757.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 709 Introduction to Higher Education Administration
3 cr. Graduate.
Contemporary issues of higher education focusing on historical, philosophical and sociological forces that affect higher education from an administrative perspective.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 710 Organizational Change and Team Leadership
3 cr. Graduate.
Organizational change and team leadership is designed to introduce theories and concepts in organizational change and the interpersonal dynamics of working with and leading teams.
Prerequisites: grad st; Ad Ldsp 702 or 757/657 or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 711 Organization and Governance in Higher Education Administration
3 cr. Graduate.
Overview of higher education institutions focusing on models of institutional governance, academic organization and higher education constituencies and their respective roles.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

AD LDSP 712 Instructional Leadership
3 cr. Graduate.
Personnel functions of the building principals recruitment, induction, staff development, supervision, and evaluation. Field experience integrated into course activities.
Prerequisites: grad st; Ad Ldsp 702 or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 729 Qualitative Research and Field Studies in Education Settings
3 cr. Graduate.
Examination of qualitative techniques as applied to educational research and evaluation in schools, classrooms, and other educational settings.
Prerequisites: grad st; Ed Psy 528 or equiv.
Course Rules: Not open to students who have cr in CurrIns 729 which is identical to Ad Ldsp 729.
Current Offerings: http://uwm.edu/schedule

AD LDSP 732 The Politics of Education
3 cr. Graduate.
Prerequisites: grad st; Ad Ldsp 702 or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 737 Distance Education for Adults
3 cr. Graduate.
Analysis of concepts, theories, and research in distance teaching and learning focusing on adult learners, program development and assessment of distance teaching and learning.
Prerequisites: Ad Ldsp 757 or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 740 Seminar in Innovative Technologies for Learning in Education
3 cr. Graduate.
Examines innovative educational technologies and potential of these technologies for individuals, groups, and organizations; purpose and impact in organizational change; implementation in an organization.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

AD LDSP 747 Strategic Planning and Budgeting in Adult, Continuing, and Higher Education
3 cr. Graduate.
Examines theoretical models and research literature on both strategic and operational planning, and the budgeting processes for adult, continuing, and higher education organizations.
Prerequisites: grad st; Ad Ldsp 667(P) or cons instr.
Current Offerings: http://uwm.edu/schedule
AD LDSP 750 Internship in Administrative Leadership
1-6 cr. Graduate.
Field experience in school and social agency settings under guidance of an experienced administrator and a faculty member.
Prerequisites: grad st; Ad Ldsp 710 & cons advisor.
Current Offerings: http://uwm.edu/schedule

AD LDSP 752 School Law
3 cr. Graduate.
Authority, power, liability of school personnel, legal status of school districts, officers, pupils. Legal controls on curriculum, property, finances. Emphasis on state, federal court decisions.
Prerequisites: grad st; Ad Ldsp 702 or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

AD LDSP 757 Principles and Foundations of Adult Education
3 cr. Graduate.
A study of concepts, theories and principles of adult education, the nature of adult processes, and factors that influence and facilitate adult learning.
Prerequisites: grad st or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 762 Management of Educational Resources
3 cr. Graduate.
Building level school finance and fiscal management. Federal, state, and local taxation policies; equity; budgeting, purchasing, and fiscal control of public and student funds.
Prerequisites: grad st; Ad Ldsp 702 or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 767 Practicum in Program Planning and Implementation
3 cr. Graduate.
Application of program planning principles including program development, budgeting, marketing, facilities management and evaluation in the implementation of an education program.
Prerequisites: grad st, Ad Ldsp 667 or 702 (705).
Current Offerings: http://uwm.edu/schedule

AD LDSP 772 The Principalship
3 cr. Graduate.
In-depth seminar examining the problems and issues of school administration at the building level.
Prerequisites: grad st; completion common core.
Current Offerings: http://uwm.edu/schedule

AD LDSP 777 Leadership in Multicultural Organizations
3 cr. Graduate.
Analyzes concepts and theories of leadership, issues of diversity in organizations, and explores techniques for managing differences that comprise today's multicultural workforce.
Prerequisites: grad st; Ad Ldsp 757(657) or 702(705) or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

AD LDSP 778 Introduction to College Student Personnel Administration
3 cr. Graduate.
Introduction to college student personnel administration stressing the various components that encompass student affairs practice in collegiate settings.
Prerequisites: grad st
Last Taught: Summer 2017, Summer 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

AD LDSP 779 Current Topics in Administrative Leadership
1-3 cr. Graduate.
Current problems, issues and research in administrative leadership and supervision and their implications for practitioners. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: May be repeated with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 782 Principalship Field Practicum
1-3 cr. Graduate.
Field application of knowledge, concepts and skills learned in principal accreditation course work. Seminar attendance required.
Prerequisites: grad st; compl common core & Ad Ldsp 772.
Course Rules: Retakeable to max of 3 cr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 787 Administration of Adult Education Programs
3 cr. Graduate.
Current behavioral concepts, theories, and processes of administration, supervision, and coordination as applied in adult education organizations and agencies.
Prerequisites: grad st; Ad Ldsp 757 or writ cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 790 Internship in Instructional Leadership
3 cr. Graduate.
Relevant field experience for candidates seeking the WI DPI Director of Instruction administrative license.
Prerequisites: grad st; completion of common core
Current Offerings: http://uwm.edu/schedule

AD LDSP 792 Principalship Field Practicum
3 cr. Graduate.
Roles, responsibilities, and operational tasks of principals with practical application of knowledge, theories, systems, and processes. Field experience component and seminar component.
Prerequisites: grad st; compl common core
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

AD LDSP 795 Women and Leadership in Education
3 cr. Graduate.
Issues of women's leadership within the field of education in the United States.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule
AD LDSP 797 The Student in the Collegiate Context
3 cr. Graduate.
Overview of the collegiate experience from multiple perspectives including race, gender, sexual identities, abilities, and age within the context of various institutions.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 798 Seminar in Human Resource Development
3 cr. Graduate.
Analyzes the concepts, current research, issues, and trends in the area of human resource development and how these issues influence organizational performance.
Prerequisites: grad st; Ad Ldsp 607.
Current Offerings: http://uwm.edu/schedule

AD LDSP 799 Independent Reading
1-3 cr. Graduate.
For graduate students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr & advisor.
Current Offerings: http://uwm.edu/schedule

AD LDSP 800 Administration of the School Plant
2-3 cr. Graduate.
Determination of school plant needs based upon educational program, population, and utilization studies. Evaluation of existing school plant.
Prerequisites: grad st; Ad Ldsp 705 & 706.
Current Offerings: http://uwm.edu/schedule

AD LDSP 801 Urban Education: Doctoral Seminar
3 cr. Graduate.
Administrative leadership and policy development in urban education.
Prerequisites: grad st; admis to Ph.D prog in Urban Educ; Educ 701(P).
Current Offerings: http://uwm.edu/schedule

AD LDSP 802 District Leadership for Learning
3 cr. Graduate.
A study of the special problems and opportunities involved in administering school districts, focusing on the role of the district administrator.
Prerequisites: post masters st; or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 812 Educational Personnel Administration and Supervision
3 cr. Graduate.
Focus on major concepts, functions and problems of personnel administration in education including recruitment, assignment, evaluation and motivation.
Prerequisites: grad st; Ad Ldsp 802 or cons instr.
Last Taught: Summer 2017, Spring 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

AD LDSP 827 Seminar in Adult and Organizational Learning
3 cr. Graduate.
Application of transformative, critical, and action learning concepts to personal and professional development.
Prerequisites: grad st; Ad Ldsp 710(P).
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

AD LDSP 828 Using Qualitative Data Analysis Software for Educational Research
1 cr. Graduate.
Explores technical and theoretical issues associated with using qualitative data analysis software packages.
Prerequisites: grad st; Ad Ldsp 829(C)
Last Taught: Summer 2012.
Current Offerings: http://uwm.edu/schedule

AD LDSP 829 Advanced Qualitative Research Techniques for Education Settings
3 cr. Graduate.
Advanced examination of qualitative research techniques in three areas; conceptual design; data collection methods and data analysis and reporting.
Prerequisites: Ad Ldsp 729 or cons instr.
Course Rules: Not open to students who have cr in CurrIns 829 which is identical to Ad Ldsp 829.
Current Offerings: http://uwm.edu/schedule

AD LDSP 832 Educational Politics and Policymaking
3 cr. Graduate.
An examination of political sources of decision making in education. The role of interest groups in shaping educational policy and implementation at local, state, and national levels.
Prerequisites: post-master’s st; Ad Ldsp 802 or cons instr.
Last Taught: Spring 2017, Spring 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

AD LDSP 839 Practicum in Writing from Qualitative Research for Educational Settings
3 cr. Graduate.
Practice in writing from qualitative research data and analysis of qualitative text.
Prerequisites: grad st; Ad Ldsp or CurrIns 729(P) & 829(P).
Course Rules: Not open to students who have cr in CurrIns 839 which is identical to Ad Ldsp 839.
Current Offerings: http://uwm.edu/schedule

AD LDSP 842 Program Planning and Evaluation in Education
3 cr. Graduate.
Theory, research, and practice regarding role of the superintendent in planning and evaluating education programs. Case studies, simulations, and field applications.
Prerequisites: grad st; Ad Ldsp 802 or cons instr.
Current Offerings: http://uwm.edu/schedule
AD LDSP 849 Higher Education and the Law
3 cr. Graduate.
Designed for aspiring college or university administrators to provide knowledge and skills in the area of higher education law and policy.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

AD LDSP 850 Supervision of Student Teaching
3 cr. Graduate.
The role and responsibilities of the supervising teacher in planning, guidance and evaluation of the learning experiences of prospective teachers.
Prerequisites: grad st; Ad Ldsp 705 or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 852 Collective Bargaining and Contract Administration in Education
3 cr. Graduate.
Study of theory and practice of collective bargaining in educational systems. Prepares educators to manage the bargaining process and administer the contract.
Prerequisites: postmaster's st; Ad Ldsp 802 or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 862 School Finance
3 cr. Graduate.
Theoretical/contemporary bases for raising/distributing local, state, federal funds for public education. Problems, issues of public school financial support. Analysis of Wisconsin school support.
Prerequisites: post-master's st; Ad Ldsp 802 or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Summer 2014.
Current Offerings: http://uwm.edu/schedule

AD LDSP 867 Seminar in Continuing Education in the Professions
3 cr. Graduate.
Analysis of the role and nature of continuing education in professions; current issues affecting the development of this field of adult education practice.
Prerequisites: grad st; Ad Ldsp 667 or cons instr.
Last Taught: Fall 2012, Summer 2012, Fall 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

AD LDSP 877 Seminar in Two-Year Post Secondary Institutions
3 cr. Graduate.
Present status, development, functions, organizational and curriculum trends in postsecondary nonbaccalaureate institutions.
Prerequisites: grad st; Ad Ldsp 657 or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 880 Proseminar in Urban Education: Administrative Leadership
3 cr. Graduate.
An examination of selected problems and issues in urban education.
Prerequisites: grad st; admis to the urban education doctoral prog.
Current Offerings: http://uwm.edu/schedule

AD LDSP 882 Practicum in the School Superintendency
1-3 cr. Graduate.
Field application of the knowledge, concepts, and skills learned in concurrent course work. Seminar attendance required.
Prerequisites: post-master's st; admis to District Administrator Cert Prog; cons instr.
Course Rules: Repeatable to 3 cr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr will be assessed. Repeatable to 3 cr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 890 Higher Education Finance
3 cr. Graduate.
Introduction to financing higher education and analyzing the strengths and weaknesses of that system.
Prerequisites: grad st
Course Rules: Counts as repeat of Ad Ldsp 779 with same topic.
Current Offerings: http://uwm.edu/schedule

AD LDSP 892 Specialist Applied Research Project
2-6 cr. Graduate.
Specialist project and inquiry in applied problems of administration and supervision.
Prerequisites: postmaster's st; completion of 15 cr in specialist sequence; cons advisor.
Current Offerings: http://uwm.edu/schedule

AD LDSP 893 Seminar in International Adult Education
3 cr. Graduate.
Introduction to the foundations, context, global, political, socio-economic, and educational issues for international adult education.
Prerequisites: grad st
Last Taught: Summer 2012.
Current Offerings: http://uwm.edu/schedule

AD LDSP 897 Seminar in the Philosophy and History of Adult, Continuing & Higher Education
3 cr. Graduate.
Philosophical foundations related to the historical movement of adult, continuing, and higher education and implications for future directions.
Prerequisites: grad st; Ad Ldsp 657(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 900 Role of the Professoriate
3 cr. Graduate.
Analysis of traditional faculty responsibilities of teaching, research, and service and the professional context in which they are conducted.
Prerequisites: doctoral status; counts as repeat of EDUC 900 with same topic.
Last Taught: Fall 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule
AD LDSP 955 Seminar in Instructional Supervision
3 cr. Graduate.
Problems of teacher-learner and supervisory relationships in improvement of instructional programs and development of personnel. Analysis of selected problems.
Prerequisites: postmaster’s st; eligibility for building administrator or supervisor cert.
Current Offerings: http://uwm.edu/schedule

AD LDSP 960 Seminar in Economics of Education
3 cr. Graduate.
Prerequisites: grad st; Ad Ldsp 862.
Current Offerings: http://uwm.edu/schedule

AD LDSP 967 Seminar in Urban Adult, Continuing, and Higher Education
3 cr. Graduate.
Examines adult, continuing, and higher education programs provided in the urban environment and discusses issues related to the development and delivery of those programs.
Prerequisites: grad st; Ad Ldsp 657(P)
Current Offerings: http://uwm.edu/schedule

AD LDSP 970 Policy Issues in Urban Education
1-3 cr. Graduate.
Examines recent policy developments in education, socio-political forces which have defined policy direction, and major points of controversy surrounding educational policies.
Prerequisites: postmaster’s st or cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 978 Seminar in Student Personnel Administration
3 cr. Graduate.
Overview of current skills and competencies needed by student affairs professionals with an emphasis on standards, retention, debt, crisis management, accountability and assessment.
Prerequisites: grad st
Last Taught: Spring 2013.
Current Offerings: http://uwm.edu/schedule

AD LDSP 990 Research or Thesis
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

AD LDSP 999 Independent Reading
1-3 cr. Graduate.
For the benefit of postmaster’s students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2016, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

Faculty
Name | Rank | Degree | School | Graduate Faculty | Emeritus Faculty
--- | --- | --- | --- | --- | ---
Cheryl Baldwin | Professor | PhD | University of Illinois at Urbana | ✓ | 
Delbert K. Clear | Associate Professor | | | | 
Carol Colbeck | Professor | PhD | Stanford University | | ✓
Simone Conceição | Associate Professor | PhD | University of Wisconsin-Madison | | ✓
Barbara Daley | Professor | PhD | Cornell University | | ✓
James Fisher | Associate Professor | PhD | | | 
William Kritek | Professor | PhD | | | 
Larry G. Martin | Professor | PhD | University of Wisconsin-Madison | | ✓
Liliana Mina | Clinical Assistant Professor | PhD | Michigan State University | | ✓
Gail Schneider | Professor | PhD | | | 
Alfonzo Thurman | Professor | PhD | University of Wisconsin – Madison | | ✓
Leigh Wallace | Clinical Assistant Professor | PhD | University of Wisconsin-Milwaukee | | ✓

Administrative Leadership, MS: Adult, Continuing, and Higher Education Administration

The master’s concentration in adult, continuing, and higher education administration prepares the student for positions of administration and leadership in business, community, and higher education environments. These environments can allow the student obtain careers as adult educators, trainers, human resource directors and administrators in vocational and technical education, university extension, continuing professional education; student advisors, managers of support programs for traditionally underrepresented students, student housing specialists, student programming specialists, business managers, and administrative positions at all levels of postsecondary education.

Students in the master’s degree with the concentration in adult, continuing, and higher education administration can jointly earn a certification in Teaching and Learning in Higher Education or a certificate in Support Services for Online Students in Higher Education. In this case,
the student must complete an application (including the application fee) for both programs (master’s program and certificate program).

The master’s degree programs are offered online and hybrid.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) to be considered for admission to the program.

**Credits and Courses**

Minimum degree requirement is 33 graduate credits, 24 of which must be in education and up to 9 of which may be in related fields. Credit distribution must be:

<table>
<thead>
<tr>
<th>Code</th>
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<td>AD LDSP 707</td>
<td>Using Technology With Adult Learners</td>
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<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
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<td>Leadership in Multicultural Organizations</td>
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<td>Administration of Adult Education Programs</td>
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<tr>
<td>AD LDSP 630</td>
<td>Field Work in Schools, Agencies and Institutions</td>
<td>2-6</td>
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<td>AD LDSP 703</td>
<td>Resources for Self-directed Learning</td>
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<td>AD LDSP 704</td>
<td>Technologies for Online Student Support</td>
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<td>Online Support Services in Adult, Continuing, and Higher Education</td>
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**Program Requirements**

**Major Professor as Advisor**

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

**Thesis or Master’s Paper**

Optional. See Credits and Courses above.

**Final Portfolio**

As a capstone requirement, students who begin the program fall 2011 and thereafter must develop and submit a comprehensive portfolio for review by faculty. The student must pass both the written part of the portfolio and the oral portfolio defense.
Comprehensive Examination
Students who began the program before Fall 2011 have the option of passing a written and/or oral final comprehensive examination as the capstone requirement.

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

Administrative Leadership, MS: Educational Administration and Supervision
The master’s concentration in educational administration and supervision prepares the student for a career as a school district administrator, elementary, middle, or secondary school administrator, director of special education and pupil services, school business manager, or curriculum director. Through this program of studies, the student can fulfill professional education requirements for administrative and supervisory licenses in Wisconsin and most other states.

Our rigorous program, led by faculty who are actively engaged in research in the field, meets Wisconsin state licensure requirements and will give you the skills you need to succeed in today’s challenging educational landscape.

The master’s degree programs are offered online and hybrid.

The Department also offers a course of study leading to the Specialist Certificate in Administrative Leadership (http://uwm.edu/graduateschool/administrative-leadership-certificate)—required for the school superintendency and recommended for other school or adult education administrative or supervisory positions.

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) to be considered for admission to the program.

Credits and Courses
Minimum degree requirement is 33 graduate credits, 27 of which must be in education and 6 of which may be in related fields. Credit distribution must be: 18-24 credits in educational administration and supervision; 9-15 credits in related electives, of which 6 credits may be earned through a thesis or master’s paper.

The student plans an individual program of studies in consultation with a major professor. If the student intends to apply for the Specialist Certificate upon completion of the master’s degree, the program of studies may satisfy Specialist Certificate admission requirements.

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<td>AD LDSP 710</td>
<td>Organizational Change and Team Leadership</td>
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<td>AD LDSP 712</td>
<td>Instructional Leadership</td>
<td>3</td>
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<tr>
<td>AD LDSP 732</td>
<td>The Politics of Education</td>
<td>3</td>
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<tr>
<td>AD LDSP 752</td>
<td>School Law</td>
<td>3</td>
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<tr>
<td>AD LDSP 762</td>
<td>Management of Educational Resources</td>
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<td>Total Credits</td>
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Courses Related to Specific Administrative Licenses

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<tr>
<td>AD LDSP 750</td>
<td>Internship in Administrative Leadership</td>
<td>1-6</td>
</tr>
<tr>
<td>AD LDSP 772</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 782</td>
<td>Principalship Field Practicum</td>
<td>1-3</td>
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<tr>
<td>AD LDSP 800</td>
<td>Administration of the School Plant</td>
<td>2-3</td>
</tr>
<tr>
<td>AD LDSP 812</td>
<td>Educational Personnel Administration and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 842</td>
<td>Program Planning and Evaluation in Education</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 852</td>
<td>Collective Bargaining and Contract Administration in Education</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 862</td>
<td>School Finance</td>
<td>3</td>
</tr>
<tr>
<td>or BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
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<tr>
<td>CURRINS 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 780</td>
<td>Internship in Special Education Administration</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 790</td>
<td>Administration of Pupil Services</td>
<td>3</td>
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<tr>
<td>EXCEDUC 805</td>
<td>Legislative and Legal Aspects of Exceptional Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 960</td>
<td>Seminar: Administration/Supervision of Programs for Exceptional Individuals</td>
<td>3</td>
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Program Requirements

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

Thesis or Master’s Paper
Optional. See Credits and Courses above.

Final Portfolio
As a capstone requirement, students who begin the program fall 2011 and thereafter must develop and submit a comprehensive portfolio for review by faculty. The student must pass both the written part of the portfolio and the oral portfolio defense.

Comprehensive Examination
Students who began the program before Fall 2011 have the option of passing a written and/or oral final comprehensive examination as the capstone requirement.
Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Administrative Leadership Specialist, Graduate Certificate
A master’s degree is the minimum prerequisite for admission to the Specialist Certificate. The Certificate can be taken with a career emphasis in the superintendency, the principalship, supervision, central office administration, or adult education administration. A cooperative relationship for the Specialist Certificate exists with the Department of Curriculum and Instruction for students with a reading supervision emphasis.

Our rigorous program, led by faculty who are actively engaged in research in the field, meets Wisconsin state licensure requirements and will give you the skills you need to succeed in today’s challenging educational landscape.

The Department of Administrative Leadership is committed to developing educational leaders, particularly for service in metropolitan areas. We believe that excellent educational leaders nurture leadership among others in the school community; create positive work environments for students, staff and parents; and contribute to the improvement of teaching and learning.

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Applicants must meet these departmental requirements:

- Completion of a master’s degree with a graduate grade point average of 3.5 or above (4.0 scale). The master’s degree may be in any field.
- Written statement of professional objectives and educational experience.
- Applicants not meeting the grade point minimum may be admitted upon submission of additional data to be specified by the Department chair.

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

Credits and Courses
Credit and course requirements depend upon the applicant’s degree field. For an applicant with a master’s degree in educational administration, the minimum credit requirement is 21 graduate credits, normally distributed as follows: 18 credits in administrative leadership, and 3 credits in a field-based practicum. As a capstone requirement, students must develop and submit a comprehensive portfolio which includes an action research project for review by faculty. The student must pass both the written part of the portfolio and the oral portfolio defense. For an applicant with a master’s degree in a field other than educational administration, the minimum credit requirement is 24 graduate credits. Additional coursework may be required for administrative certification.

Program Requirements
Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

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

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

Time Limit
Certificate program time limits shall be established as follows:

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

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

Administrative Leadership, MS
The Department of Administrative Leadership offers a graduate program of studies with two emphases: (1) educational administration
and supervision and (2) adult, continuing, and higher education administration.

The concentration in educational administration and supervision prepares the student for a career as a school district administrator, elementary, middle, or secondary school administrator, director of special education and pupil services, school business manager, or curriculum director. Through this program of studies, the student can fulfill professional education requirements for administrative and supervisory licenses in Wisconsin and most other states.

The concentration in adult, continuing, and higher education administration prepares the student for positions of administration and leadership in business, community, and higher education environments. These environments can allow the student to obtain careers as adult educators, trainers, human resource directors and administrators in vocational and technical education, university extension, continuing professional education; student advisors, managers of support programs for traditionally underrepresented students, student housing specialists, student programming specialists, business managers, and administrative positions at all levels of postsecondary education.

Students in the master's degree with the concentration in adult, continuing, and higher education administration can jointly earn a certification in Teaching and Learning in Higher Education or a certificate in Support Services for Online Students in Higher Education. In this case, the student must complete an application (including the application fee) for both programs (master's program and certificate program).

The master's degree programs are offered online and hybrid.

The Department also offers a course of study leading to the Specialist Certificate in Administrative Leadership (http://uwm.edu/graduateschool/administrative-leadership-certificate)—required for the school superintendent and recommended for other school or adult education administrative or supervisory positions.

Under the auspices of the Ph.D. program in Urban Education (http://uwm.edu/graduateschool/urban-education), the Department offers doctoral level specializations in educational administration and in Adult, Continuing, and Higher Education Administration.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) to be considered for admission to the program.

**Program Requirements**

**Major Professor as Advisor**

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

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**Educational Studies, BS**

As of Fall 2017, the Educational Studies program has suspended admission. This means that unless you have been accepted into this program prior to Fall 2017, you will not be able to earn the certificate. The following information is provided solely for the benefit of students accepted into the Educational Studies program prior to Fall 2017.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Studies Major</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Advanced-Level Coursework Outside the School of Education</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>General University Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational Studies Second Degree Requirements</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>96</td>
<td></td>
</tr>
</tbody>
</table>

A minimum of 128 credits is needed for graduation. Students must satisfy all UWM, School of Education, and Educational Studies program requirements, and have satisfactorily completed the following minimum requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements (GER)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational Studies Major</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Focus Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select a minimum of 18 credits in the chosen area of concentration (i.e., adult education, youth leadership, or training and workforce development)</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Fieldwork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select practical experience applying the student's professional skills in an appropriate work setting</td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>Common Learning Component</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 24 credits in coursework that develops knowledge of social/cultural perspectives, human development and learning, program development, and communication skills/group processes</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Advanced-Level Coursework Outside the School of Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select a minimum of 12 credits numbered 300 or above</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>General University Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select general university electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational Studies Second Degree Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>See requirements below</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>99-102</td>
<td></td>
</tr>
</tbody>
</table>

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1. Students not enrolled in a degree program in an accredited institution prior to September 1986 must also meet the University's General Education Requirements (GER).

2. Educational Studies Major. The Educational Studies Major is a means of developing professional skills. It requires completing at least 42 credits, 34 of them in the School of Education, with a 2.75 grade point average overall. The major contains three components:
   - Focus Area
   - Fieldwork
   - Common Learning Component

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Contact the Office of Student Services for a list of acceptable course titles.

Educational Studies Second Degree Requirements
1. Complete 42 credits.
   • At least 30 of the program credits must be earned in residence at the University of Wisconsin-Milwaukee and following admission to the Educational Studies Program. The remaining 12 credits may be transferred from previous institutions/programs or earned inclusively within the Educational Studies program.
   • At least 20 of the 42 credits must be earned in upper-division courses (300 level or above). The common learning components allow for accommodation of this requirement.
2. Earn at least 18 credits in selected focus areas. Select from: adult education, youth leadership, and training and workforce development.
   • Earn 3 credits in fieldwork within the selected focus area. The fieldwork placement will be determined by the faculty advisor and academic advisor.
   • Earn 24 credits in the common learning components. These credits will be selected in consultation with the faculty advisor: social cultural perspectives, human development and learning, program development, and communication skills and group processes.
3. Achieve a 2.75 GPA on all focus area and common learning components credits.

Honors in the School of Education
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership)
The Health Professional Education certificate is designed to provide health professionals with additional preparation in educational principles and theory to support them in their roles as educators of students and staff in the health professions as well as in the role of patient educator. This program is open to students simultaneously enrolled in a graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s, or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences and Schools of Nursing and Education, and is coordinated through the College of Nursing.

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

Admission
Applicants are admitted to the certificate program in one of three categories: post-baccalaureate, current student in a UWM graduate health profession program, or post-graduate student.
1. Post-baccalaureate students must have completed a bachelor’s degree in a health profession discipline with a grade point average of 2.75 or above (4.0 scale) and not be currently enrolled in a graduate degree program at UWM.
2. The admission requirements of the health professional educational certificate for students enrolled in good standing in a UWM graduate health profession program are consistent with those requirements specified by the program.
3. Post-graduate students must have completed a graduate degree in a health profession or related discipline with a grade point average of 3.0 or above (4.0 scale).

Credits and Courses
The completion of 15 credit hours (5 courses) is required for the certificate program.
Support Services for Online Students in Higher Education, Graduate Certificate

### Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td>6</td>
</tr>
<tr>
<td>NURS 731</td>
<td>Practicum and Seminar in Health Professional Education</td>
<td></td>
</tr>
</tbody>
</table>

#### Curriculum/Program Planning & Evaluation Courses

Select one of the following:

- AD LDSP 667 Program Planning in Adult Education
- AD LDSP 607 Coordination of Staff Development and Training Program
- AD LDSP 647 Evaluation of Adult, Continuing, and Higher Education Programs
- NURS 752 Curriculum Development in Nursing Education

#### Teaching/Instructional Strategies

Select one of the following:

- AD LDSP 687 Instructional Design and Teaching Strategies
- AD LDSP 707 Using Technology With Adult Learners
- AD LDSP 827 Seminar in Adult and Organizational Learning
- NURS 705 Instructional Strategies for Patient Education

#### Elective Courses

Select one additional course from the above or from the following:

- AD LDSP 867 Seminar in Continuing Education in the Professions
- AD LDSP 787 Administration of Adult Education Programs
- AD LDSP 547 The Educational Dimensions of Practice with Older Adults
- NURS 764 Changing Health Behaviors
- CURRINS 774 College Teaching
- NURS 751 Teaching in Practice Disciplines

Total Credits: 18

A current listing of courses that meet these requirements can be obtained from the College of Health Sciences or the College of Nursing. Students will need to maintain a 3.0 GPA and meet all other requirements of the Graduate School for continuation in the program. The Practicum and Seminar in Health Professional Education is the last course taken in the certificate program.

### Certificate Requirements

#### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

#### Grade Point Average Requirement

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

### Articulation with Degree Programs

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

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

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

### Support Services for Online Students in Higher Education, Graduate Certificate

This graduate certificate program offers a unique opportunity for professionals interested in online student support in higher education. Prospective professionals venturing into today's higher education environment would benefit from an understanding of teaching and learning and student support service theory, research, and effective practice. Successful professionals require many tools to educate, motivate, and support online students, as well as the wisdom to know when and how to apply those tools. This wisdom comes from a critical, reflective understanding of the research and theory behind teaching, learning, and student support. The 15-credit certificate program draws upon current coursework in Adult Education, Higher Education, Education Technology, and Distance Education.

### Admission Requirements

#### Application Deadlines

If at any time you are unsure about a published date or deadline (http://uw.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uw.edu/registrar/contact-us) online.
Admission
Applicants must have completed a bachelor’s degree prior to admission, must have a minimum 2.75 cumulative undergraduate grade point average.

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

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD LDSP 703</td>
<td>Resources for Self-directed Learning</td>
<td>1</td>
</tr>
<tr>
<td>AD LDSP 704</td>
<td>Technologies for Online Student Support</td>
<td>1</td>
</tr>
<tr>
<td>AD LDSP 706</td>
<td>Professional Development for Online Instruction</td>
<td>1</td>
</tr>
<tr>
<td>AD LDSP 707</td>
<td>Using Technology With Adult Learners</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 708</td>
<td>Online Support Services in Adult, Continuing, and Higher Education</td>
<td>3</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>Select 6 credits in courses not taken in the core or from the following:</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 687</td>
<td>Instructional Design and Teaching Strategies</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 740</td>
<td>Seminar in Innovative Technologies for Learning in Education</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 778</td>
<td>Introduction to College Student Personnel Administration</td>
<td></td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td></td>
</tr>
<tr>
<td>INFOST 521</td>
<td>Introduction to Reference Services and Resources</td>
<td></td>
</tr>
<tr>
<td>INFOST 734</td>
<td>Library Services and Resources for Adults</td>
<td></td>
</tr>
<tr>
<td><strong>Practicum</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD LDSP 750</td>
<td>Internship in Administrative Leadership Evaluation of Adult, Continuing, and Higher Education Programs</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 12

1 NOTE: These credits should not be taken before completion of at least 9 credits of coursework.

2 This practicum would require students to complete an internship in an online student support service unit (a total of 150 hours) by enrolling in AD LDSP 750 or an instructor supervised evaluation project of an existing online student support service by enrolling in AD LDSP 647.

Descriptions of required and elective courses offered at UWM as part of the Certificate in Support Services for Online Students in Higher Education can be found under the respective curricular areas (see below).

- Administrative Leadership (Ad Ldsp)
- Educational Psychology (Ed Psy)
- Information Studies (Info St)

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the five courses that constitute the certificate. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
Teaching and Learning in Higher Education, Graduate Certificate

This graduate certificate program offers a unique opportunity for students interested in teaching in higher education to gain knowledge about teaching and learning, both generally and within their discipline. Prospective teachers venturing into today’s higher education environment would benefit from an understanding of teaching and learning theory, research, and effective practice. Successful instructors require many tools to teach, as well as the wisdom to know when and how to apply those tools. This wisdom comes from a critical, reflective understanding of the research and theory behind teaching and learning. The 15-credit certificate program is multi-disciplinary, drawing upon current coursework in Communication, the School of Education, and other disciplines that have teaching and learning courses in place.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Applicants must have completed a bachelor’s degree prior to admission, and must have a minimum 2.75 cumulative undergraduate grade point average. Applicants with a graduate degree must have a minimum 3.00 graduate grade point average.

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

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select two of the following 1</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education (offered every semester)</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 687</td>
<td>Instructional Design and Teaching Strategies (offered every summer)</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 900</td>
<td>Role of the Professoriate</td>
<td></td>
</tr>
<tr>
<td>CURRINS 774</td>
<td>College Teaching (offered every year)</td>
<td></td>
</tr>
<tr>
<td>Practicum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD LDSP 750</td>
<td>Internship in Administrative Leadership (every semester) 2</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 998</td>
<td>Communication Internship</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits from Teaching and Learning (General) and/or Teaching and Learning (Discipline Specific)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Teaching and Learning (General)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 587</td>
<td>Serving Multicultural and Special Needs Learners (offered every year)</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 707</td>
<td>Using Technology With Adult Learners (offered every spring)</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 737</td>
<td>Distance Education for Adults (offered every fall)</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 827</td>
<td>Seminar in Adult and Organizational Learning (offered every fall)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 727</td>
<td>Seminar in Communication and E-Learning (offered every other year)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 827</td>
<td>Seminar in Instructional Communication (offered every other year)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 837</td>
<td>Instructional Communication in the College Classroom (offered every other spring)</td>
<td></td>
</tr>
<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td></td>
</tr>
</tbody>
</table>

Any core course not taken as a required core course

Teaching and Learning (Discipline Specific)

Examples of such courses include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies (offered every fall)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 706</td>
<td>Seminar in Professional Writing Theory and Pedagogy (offered every year)</td>
<td></td>
</tr>
<tr>
<td>MALLT 700</td>
<td>Language Teaching Methods</td>
<td></td>
</tr>
<tr>
<td>NURS 705</td>
<td>Instructional Strategies for Patient Education (offered every other spring)</td>
<td></td>
</tr>
<tr>
<td>HIST 716</td>
<td>Professional and Pedagogical Issues in History (offered every other year)</td>
<td></td>
</tr>
<tr>
<td>BMS/HCA 909</td>
<td>Guided Teaching Experience in Health Sciences (offered every other year)</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 900</td>
<td>Teaching, Learning and Educational Leadership in the Health Sciences (offered every year)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 610</td>
<td>The Art and Science of Teaching Physics</td>
<td></td>
</tr>
<tr>
<td>NURS 752</td>
<td>Curriculum Development in Nursing Education</td>
<td></td>
</tr>
<tr>
<td>NURS 751</td>
<td>Teaching in Practice Disciplines</td>
<td></td>
</tr>
<tr>
<td>NURS 731</td>
<td>Practicum and Seminar in Health Professional Education</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

1 Students can count discipline-specific teaching and learning courses from their own department as electives or as one of their core courses (3 credits) with the permission of the Certificate Coordinator.

2 These credits should not be taken before completion of at least 9 credits of coursework.

Successful completion of this certificate is NOT a teaching license or credential for K-12 instruction.
Program Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the five courses that constitute the certificate. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

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

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
The American Sign Language (ASL) Studies minor area addresses the needs of students who are already pursuing a major in another area of study, but want to supplement their studies with knowledge and skill in ASL. This will allow students to be able to communicate with Deaf persons they may meet in their professions.

**Requirements**

Students must have a minimum grade of C or better in all ASL minor coursework.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 302</td>
<td>American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 303</td>
<td>American Sign Language III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 304</td>
<td>American Sign Language IV</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 305</td>
<td>American Sign Language V</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 306</td>
<td>American Sign Language VI</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 330</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 346</td>
<td>Skill Development: Semantics</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 352</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 510</td>
<td>Classifiers</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 30
EDUCATION, BS: AMERICAN SIGN LANGUAGE STUDIES

The American Sign Language Studies Program offers an array of courses to prepare students to work with the Deaf community. Students completing this program will have a deeper understanding of American Sign Language (ASL), Linguistics, Deaf History, Deaf Literature and Deaf Culture with an emphasis on the rich language and cultural diversity of the Deaf community as well as the social justice issues impacting their lives.

Several objectives will be covered during the program, such as Deaf culture, Deaf folklore, and Deaf literature, and the relationship between the signing community and the non-signing community. This program also covers linguistic components with several course offerings in ASL as well as specialized skill areas of ASL, such as a focus on grammatical structure and an overview of linguistic components.

Professions that find this program an enhancement to their work include (but are not limited to): interpreting, health care, criminal justice, education, exceptional education, psychology, social work and more. Many of the courses offered through this program also satisfy certain GER requirements for the general student population such as foreign language (ASL-I-IV) and cultural diversity (Deaf Culture or Deaf History). All students start with ASL I however if a student has previous experience with the language, they may be placed into higher classes by taking the American Sign Language Proficiency Interview (ASLPI) and may be eligible for retroactive credits if they meet all requirements.

Requirements

Code | Title | Credits
--- | --- | ---
University General Education Requirements * | 21-42
Program Core | 48
Electives (to ensure 128 credits at time of graduation) | 38-53
Minimum credits for degree | 128

* Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

University General Education Requirements (GER)
Required courses for this program fulfill some of the University GERS. Consult Program Core for specific courses.

Code | Title | Credits
--- | --- | ---
GER Competency Requirements | | 
Oral and Written Communication, Part A 1 | 0-3
  - English Placement Test score at level 4 or higher, or pass English 102 (OWC-A approved) with a grade of C or better
Oral and Written Communication, Part B | 3
  - Complete an OWC-B approved advanced course with a grade of C or better
Quantitative Literacy, Part A 1 | 0-3
  - Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 (QL-A approved) with a grade of C or better
Quantitative Literacy, Part B | 3
  - Complete a QL-B approved advanced course with a grade of C or better
Foreign Language | 0-6

Complete one of the following:
- 2 consecutive semesters of college instruction in a single foreign language with passing grades
- 2 consecutive years of high school instruction in a single foreign language with passing grades
- Demonstrate language proficiency on approved exam

GER Distribution Requirements
Arts 2 | 3
  - Select one approved GER-A designated course
Humanities 1 | 3-6
  - Select two approved GER-HU designated courses
Social Sciences 1 | 0-6
  - Select two approved GER-SS designated courses
Natural Sciences 2 | 6
  - Select one approved GER-NS or GER-NS+ designated course
  - Select one approved GER-NS+ designated course, which includes a lab component
Cultural Diversity 2 | 3
  - Select one approved GER-CD designated course

Total Credits | 21-42

1 Program-specific requirements (including those prior to program admission) fulfill, or partially fulfill, University GER requirements. See Program Core for specific courses.
2 Program requires additional credits. See an academic advisor for details.

Program Admission Requirements (p. 450)
Program Core

Code | Title | Credits
--- | --- | ---
One of the following courses, fulfilled prior to program admission | 3
  - COMMUN 101 Introduction to Interpersonal Communication (GER-SS)
  - COMMUN 103 Public Speaking (GER-HU)
EXCEDUC 301 | American Sign Language I | 3
EXCEDUC 302 | American Sign Language II | 3
EXCEDUC 303 | American Sign Language III | 3
EXCEDUC 304 | American Sign Language IV | 3
EXCEDUC 305 | American Sign Language V | 3
EXCEDUC 306 | American Sign Language VI | 3
EXCEDUC 330 | Deaf History (GER-SS) | 3
EXCEDUC 346 | Skill Development: Semantics | 3
EXCEDUC 352 | American Deaf Culture (GER-SS) | 3
EXCEDUC 358 | ASL/English Linguistics I | 3
EXCEDUC 363 | ASL/English Linguistics II | 3
EXCEDUC 500 | Fingerspelling & Numbers | 3
EXCEDUC 510 | Classifiers | 3
EXCEDUC 520 | ASL Literature | 3
EXCEDUC 348 | Introduction to the Profession of Interpreting | 3
EXCEDUC 655 | Introduction to Education of Individuals Who are Deaf and Hard of Hearing | 3
Additional Requirements for Graduation

- Minimum grade of C or better in all professional coursework.
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program.
- Completion of a minimum 128 degree credits.

Advance to Major

Program Admission Requirements

- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 105, MATH 175, or equivalent with a grade of C or better.
- **Completion of COMMUN 101 or COMMUN 103,** with a grade of C or better.
- **Completion of ASL GER requirements.**
- **Maintain a cumulative 2.5 GPA**

Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting

- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Transfer Student Not Yet Enrolled at UWM?

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

Honors in the School of Education

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
EDUCATION, BS: INTERPRETER TRAINING PROGRAM

The Interpreter Training Program (ITP) goes beyond teaching students about language, culture, and how to facilitate conversations. Our program philosophy of service takes hold the moment you begin. We work to develop well-rounded interpreters who value and consider others’ perspectives; students who are culturally sensitive and empathetic practitioners who continually work to better themselves and the interpreting profession.

We also work hard to ensure that graduates reach their career goals, and we pride ourselves on the success our former students have achieved through their work in our community. In a recent survey of the past five graduating classes, 80% of ITP graduates were working as interpreters and 76% reported finding work within three months of graduation. In general, the interpreting and translation field is growing much faster than other occupations, and ASL interpreters are especially sought-after.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements*</td>
<td>30-42</td>
</tr>
<tr>
<td></td>
<td>Program Core*</td>
<td>45-51</td>
</tr>
<tr>
<td></td>
<td>Professional Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>58</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.</td>
<td></td>
</tr>
</tbody>
</table>

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GER Competency Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete a GER-OVWC approved advanced course with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy, Part B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete a GER-QLB approved advanced course with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language ¹</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Demonstrate language proficiency on approved exam</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GER Distribution Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts ¹</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-A designated course</td>
<td></td>
</tr>
</tbody>
</table>

**Humanities ¹**

Select two approved GER-HU designated courses

**Social Sciences ¹**

Select two approved GER-SS designated courses

**Natural Sciences ¹**

Select one approved GER-NS or GER-NS+ designated course

Select one approved GER-NS+ designated course, which includes a lab component

**Cultural Diversity**

Select one approved GER-CD designated course

Total Credits: 30-42

¹ Program-specific requirements (including those prior to program admission) fulfill, or partially fulfill, University GER requirements. See Program Core for specific courses.

**Program Core**

American Sign Language I-VI courses in the Department of Exceptional Education satisfy University foreign language requirements. For all programs that require American Sign Language, students with previous experience in American Sign Language can take the American Sign Language Proficiency Interview (ASLPI) to determine appropriate placement level. If a B or better is received on the ASLPI, credit will be received for courses up through ASL 4. Any individual who would like to take the ASLPI will be responsible for the cost of the assessment. Please call (414) 229-5251 for more information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCDEC 301</td>
<td>American Sign Language I (With a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEC 302</td>
<td>American Sign Language II (With a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEC 303</td>
<td>American Sign Language III (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEC 304</td>
<td>American Sign Language IV (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEC 305</td>
<td>American Sign Language V (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEC 306</td>
<td>American Sign Language VI (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEC 320</td>
<td>Introduction to Interpreting: English to American Sign Language (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEC 321</td>
<td>Introduction to Interpreting: American Sign Language to English (With a grade of B- or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEC 348</td>
<td>Introduction to the Profession of Interpreting (With a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td>EXCDEC 352</td>
<td>American Deaf Culture (With a grade of C or better; GER-SS)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Unsequenced**

THEATRE 111     Theatre Games (GER-A)            3
COMMUN 103      Public Speaking (GER-HU)            3
EXCDEC 330      Deaf History (GER-SS)             3

**Highly recommended:**
**Language and Licensure Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 510</td>
<td>Classifiers</td>
<td>3</td>
</tr>
<tr>
<td>or EXCEDUC 520</td>
<td>ASL Literature</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**: 51

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**Admission to Program** (p. 452)

**Professional Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 100</td>
<td>The Diversity of Human Language (GER-CD, HU)</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 210</td>
<td>Power of Words (GER-CD, HU)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sequenced Courses**

Students must have a grade of B- or better for the sequenced courses and a minimum 2.75 GPA in all professional coursework.

**Fall I**

- EXCEDUC 345: Foundations of English to ASL Interpreting (3 credits)
- EXCEDUC 347: Foundations of ASL to English Interpreting (3 credits)
- EXCEDUC 349: Field work: Interacting in the Deaf Community I (3 credits)
- EXCEDUC 358: ASL/English Linguistics I (3 credits)

**Spring I**

- EXCEDUC 335: Educational Interpreting I (3 credits)
- EXCEDUC 336: Postsecondary Interpreting I (3 credits)
- EXCEDUC 337: Video Relay Services Interpreting I (3 credits)
- EXCEDUC 354: Field work: Interacting in the Deaf Community II (3 credits)
- EXCEDUC 363: ASL/English Linguistics II (3 credits)
- EXCEDUC 371: Strategies for the National Interpreter Certification Exam (1 credit)

**Fall II**

- EXCEDUC 338: Introduction to Healthcare Interpreting (3 credits)
- EXCEDUC 359: Fieldwork: Interacting in the Deaf Community III (3 credits)
- EXCEDUC 365: Educational Interpreting II (3 credits)
- EXCEDUC 366: Postsecondary Interpreting II (3 credits)
- EXCEDUC 367: Video Relay Services Interpreting II (3 credits)

**Spring II**

- EXCEDUC 364: Fieldwork: Interacting in the Deaf Community IV (In one semester or split over two semesters) (12 credits)
- EXCEDUC 368: Medical and Mental Healthcare Interpreting (3 credits)

**Total Credits**: 58

---

**Education Degree, Interpreter Training Program Completion Requirements**

- Completion of all admission requirements, granted admission to the ITP, and completion of ITP professional course sequence;
- Completion of university GER requirements;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of a minimum 121 degree credits; and
- Professional coursework minimum GPA of 2.75.

**Certificate of Completion Requirements**

- Successful Completion of 2 (6 cr) fieldwork experiences.
- Completion of Wisconsin Department of Instruction Educational Interpreter License course requirements with a C or better: Ed Psy 330, Introduction to Learning and Development; ExcEduc 300, The Exceptional Individual; and ExcEduc 510, Classifiers or ExcEduc 520, ASL Literature
- Pass written exam for the Registry of Interpreters for the Deaf National Interpreter Certification (RID, NIC)
- Pass the performance exam for Wisconsin Interpreter and Transliteration Assessment (WITA) with a 1/2 or 2/1 and higher and/or the Registry of Interpreters for the Deaf National Interpreter Certification (RID, NIC) and/or the Educational Interpreter Proficiency Assessment (EIPA) with a 3.3 or higher; and/or Board for Evaluation of Interpreters (BEI)-Requires two tests-First pass the Test of English Proficiency (TEP), and then pass the BEI Basic Performance Exam

**Advance to Major**

**Program Admission Requirements**

- EXCEDUC 348, Introduction to the Profession of Interpreting, with a grade of C or better;
- EXCEDUC 352, American Deaf Culture, with a grade of C or better;
- EXCEDUC 301, EXCEDUC 302, EXCEDUC 303, EXCEDUC 304, EXCEDUC 305, and EXCEDUC 306, American Sign Language I-VI. ASL I-II with a grade of C or better; ASL III-VI with a grade of B- or better;
- EXCEDUC 320, Intro to Interpreting Skills: English to American Sign Language with a grade of B- or better;
- EXCEDUC 321, Intro to Interpreting Skills: American Sign Language to English with a grade of B- or better;
- 58 credits complete;
- Cumulative GPA of 2.5; and
- Completion of Screening Interview, which occurs after application is submitted.

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

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Transfer Student Not Yet Enrolled at UWM?
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Graduate Advising
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Honors in the School of Education
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
EDUCATIONAL POLICY AND COMMUNITY STUDIES

The Department of Educational Policy and Community Studies at UWM provides students with a deeper understanding of education and community contexts in urban areas. The department offers a Bachelor of Science in Community Engagement and Education (CEED).

Students often choose to focus their coursework in one of the following areas:

- Alternative Education/At-Risk Students
- Child Care (Educator or Administrator Track)
- Community Organizing for Social Change
- Policy and Leadership in Community-Based Organizations
- Urban Education
- Youth Work

Students, past and present, are employed by charities, hospitals, schools, community-based organizations, and local government units in metropolitan Milwaukee. The Department does not offer licensure for teaching in K-12 public schools, but many graduates either seek post-baccalaureate certification or teach in private schools.

The degree program helps those working in schools and the community better understand the social and political contexts of their jobs and provides a range of skills for better addressing the challenges they face. Students can also select one of four optional submajors: Child Care, Community-Based Organizations Policy and Leadership, Child and Family Services, or Community Leadership. Students may seek certificates in Community Organizing, Community-Based Organizations & Leadership, Community Leadership, and Youth Work. Licensed teachers may seek an add-on state DPI certification in Alternative Education.

The Bachelor of Science degree in Community Engagement and Education is also available as a second degree option. Candidates for a second degree must satisfy all current requirements for an undergraduate degree for the degree program. Some of the requirements may be met by transfer credits. Students must complete at least 30 credits in residence at UWM after the date on which the first degree is awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed in residence.

Students in the department come from a range of educational and community-based backgrounds. Our students and alumni include state and local elected officials; community organizers and developers; personnel in human resource institutions, including program planners, outreach workers, and administrators; teachers and directors of community day care programs; youth workers in community and group home care; teachers and directors of alternative schools; and directors of community-based organizations.

The Department also offers a master’s degree program in Cultural Foundations of Education with areas of concentration in educational foundations and multicultural education, focusing on sociological, historical, philosophical, and other frames of reference. Many of the same focus areas that are available in the CEED BS program can be pursued at a more advanced level in our MS program. Additional information about the master’s degree program is available at https://uwm.edu/education/academics/cultural-foundations-edu/.

Programs

- Community Engagement and Education, BS (p. 463)
- Community Engagement and Education, BS: Child and Family Services (p. 465)
- Community Engagement and Education, BS: Child Care (p. 468)
- Community Engagement and Education, BS: Community Leadership (p. 470)
- Community Engagement and Education, BS: Community-Based Organizations: Policy and Leadership (p. 473)
- Community Engagement Strategies, Undergraduate Certificate (p. 476)
- Community Engagement, Minor (p. 478)
- Community Leadership, Undergraduate Certificate (p. 479)
- Community-Based Organizations: Policy and Leadership, Undergraduate Certificate (p. 480)
- Cultural Foundations of Community Engagement and Education, MS (p. 481)
- Educational Policy, Graduate Certificate (p. 482)
- Youth Work, Undergraduate Certificate (School of Education, Department of Educational Policy and Community Studies) (p. 483)

Educational Policy and Community Studies Courses

**ED POL 100 Prior Professional Education Experience**

3 cr. Undergraduate.

Allows Community Engagement & Education majors only to earn credits for their prior professional education experiences. Course credits may only be used towards lower electives.

**Prerequisites:** Admis to CEED.

**Course Rules:** Cr/no cr only.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** http://uwm.edu/schedule

**ED POL 101 Community Education II**

1-15 cr. Undergraduate.

Second semester lower division curriculum; includes development of prior educational experience statement, personal goal analysis, learning agreement, continued acquisition of skills and understandings leading to competence, practice.

**Prerequisites:** Ed Pol 100 or cons instr.

**Course Rules:** Less than 15 cr available to students possessing some equivalent skills and/or understandings.

**Current Offerings:** http://uwm.edu/schedule

**ED POL 111 Introduction to Community Change and Engagement**

3 cr. Undergraduate.

Basic concepts and strategies for community change and engagement.

**Prerequisites:** none.

**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.

**Current Offerings:** http://uwm.edu/schedule

**ED POL 112 Introduction to Community Education**

3 cr. Undergraduate.

This course will examine the history of community education and discuss the role of education within a community setting.

**Prerequisites:** none.

**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.

**Current Offerings:** http://uwm.edu/schedule
ED POL 113 The Milwaukee Community
3 cr. Undergraduate.
An overview of communities and neighborhood groups in Milwaukee.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ED POL 114 Community Problems
3 cr. Undergraduate.
This course will examine how social problems impact upon communities
and neighborhoods, how they are defined, and how these definitions
influence social policies and programs.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED POL 179 Special Topics in Community Education:
1-3 cr. Undergraduate.
Prerequisites: none.
Course Rules: May be retaken w/content chg to 12 cr max.
Current Offerings: http://uwm.edu/schedule

ED POL 200 Community Education III
1-15 cr. Undergraduate.
Third semester lower division curriculum: emphasizes acquisition of
skills and understandings leading to basic competence as set forth in
student learning agreements. Includes fieldwork practice.
Prerequisites: Ed Pol 101 or cons instr.
Course Rules: Variable cr based on skills & understanding to be acquired
& nature of practice.
Current Offerings: http://uwm.edu/schedule

ED POL 201 Community Education IV
1-15 cr. Undergraduate.
Fourth semester of lower division curriculum: emphasizes final
development of skills and understandings leading to basic competence
as set forth in student learning agreements and continuation of fieldwork
practice. Includes final evaluation of basic competence.
Prerequisites: Ed Pol 200 or cons instr.
Current Offerings: http://uwm.edu/schedule

ED POL 202 Community Service Volunteer
1-6 cr. Undergraduate.
Prerequisites: none.
Course Rules: Cr/no cr only. May be retaken to max of 6 cr.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ED POL 203 Communities and Neighborhoods in America
3 cr. Undergraduate.
Students will construct a survey of their neighborhoods, examine
theories of community structure, and analyze neighborhood improvement
movements. Fulfills Ed Pol 113 req for CED.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ED POL 212 Educational Issues in Spanish Speaking Communities
3 cr. Undergraduate.
This course presents an overview of the educational issues in the
Spanish-speaking communities in the United States and how these
issues affect the total society.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: http://uwm.edu/schedule

ED POL 279 Current Topics in Educational Policy and Community Studies:
1-3 cr. Undergraduate.
Variable content course. Specific topic announced in the Schedule of Classes.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

ED POL 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ED POL 299 Independent Reading
1-3 cr. Undergraduate.
For the benefit of undergraduate students unable to secure needed
content in regular courses.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 6 cr.
Last Taught: Spring 2017, Spring 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ED POL 302 Approaches to Relationships in the Child Care Setting
3 cr. Undergraduate.
Communication and conflict resolution in relationships in the child care
setting, emphasizing parent-child, teacher-child, teacher-teacher and
parent-teacher relationships.
Prerequisites: Commun Ed majors, cons advisor; others, jr st or cons
instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED POL 307 Approaches to Relationships in the Child Care Setting
3 cr. Undergraduate.
Communication and conflict resolution in relationships in the child care
setting, emphasizing parent-child, teacher-child, teacher-teacher and
parent-teacher relationships.
Prerequisites: Commun Ed majors, cons advisor; others, jr st or cons
instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED POL 315 Group Process and Civic Engagement:
1-3 cr. Undergraduate.
Explore group process and identity and relate these issues to future civic
engagement for emerging student leaders.
Prerequisites: none.
Course Rules: Not open to students with cr in Ed Pol 279 Emerging
Leaders topics. May be retaken to 4 cr max.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule
ED POL 375 Cultural Foundations of Education
3 cr. Undergraduate.
Critical examination of cultural influences in American society as they affect education.
Prerequisites: soph st or cons instr.
Current Offerings: http://uwm.edu/schedule

ED POL 377 Conceptual and Development Formulation for Prior Educational Experience
3-6 cr. Undergraduate.
Prerequisites: C/NC only. May be retaken to 12 cr max.
Current Offerings: http://uwm.edu/schedule

ED POL 379 Current Topics in Community Education:
1-6 cr. Undergraduate.
The specific topics and prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Summer 2010, Fall 2009, Fall 1999, Fall 1998.
Current Offerings: http://uwm.edu/schedule

ED POL 381 Introduction to Child Care:
3 cr. Undergraduate.
An introductory course for students who are new to the field of child care. Enables students to begin working effectively with young children.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED POL 383 Child Care Programming:
1-3 cr. Undergraduate.
Study of child care programming as it relates to the child’s social milieu: family, community, and child care center. Comparative examination of child care programs and their supporting theories.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ED POL 411 Conflict and Change in Community-Based Organizations
3 cr. Undergraduate.
Examines the role of bargaining and conflict in community-based educational change, various approaches to bargaining and conflict, and their appropriateness in various settings.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

ED POL 416 Analysis of Child Care Environments
3-6 cr. Undergraduate.
Introduces students to a variety of special designs for child care settings and to an understanding of evaluation process for environmental changes.
Prerequisites: Comm Ed majors-cons adv; others-jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

ED POL 442 Intermediate Community Education Practice I
3-9 cr. Undergraduate.
Supervised fieldwork in Area of Specialty (upper divisional majors in C.E.). Emphasizes acquisition of new skills understandings and their application to practice.
Prerequisites: Ed Pol 508(P) & cons instr.
Course Rules: May be retaken to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ED POL 460 The Chicano Experience
3 cr. Undergraduate.
This course surveys important issues shaping the Chicano experience in U.S. society by focusing on immigration, the Barrio, Repatriation, Zoot Suit, Chicano-police riots, etc.
Prerequisites: none.
General Education Requirements: CD, HU
Last Taught: Spring 2017, Spring 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ED POL 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2014, Spring 2010.
Current Offerings: http://uwm.edu/schedule

ED POL 499 Independent Reading
1-3 cr. Undergraduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken for cr.
Current Offerings: http://uwm.edu/schedule

ED POL 500 Sociology and Policy of Urban Communities and Schools
3 cr. Undergraduate/Graduate.
Selected contemporary social issues analyzed for their bearing on urban communities and schools.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 501 Community Change and Engagement
3 cr. Undergraduate/Graduate.
Concepts and strategies for community change and engagement in low-income urban settings.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED POL 506 Research Techniques for Community Organizers and Community Educators
3 cr. Undergraduate.
Introduction to basic research techniques and the specific skills needed for the community organizer and/or educator.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ED POL 507 Action Research on Milwaukee Institutions  
3 cr. Undergraduate/Graduate. 
Examination and analysis of the organization, philosophy, and history of specific Milwaukee institutions. Emphasis placed on how these institutions affect the lives of community residents and appropriate alternatives to current arrangements. 
Prerequisites: jr st or cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 508 Advanced Problems in Community Change and Engagement  
3 cr. Undergraduate/Graduate. 
Advanced training in community engagement with reflective paper. 
Prerequisites: Ed Pol 111(P) & cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 509 Fieldwork/Practicum in Education and the Community  
1-3 cr. Undergraduate/Graduate. 
Advanced fieldwork/practicum for students to acquire skills for educational and community practice; fieldwork hours correspond to credit value; 50 hours for 1 cr, 75 hours for 2 crs, 100 hours for 3 crs. 
Prerequisites: Comm Ed majors only. 
Course Rules: May be retaken to 6 cr max. 
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015. 
Current Offerings: http://uwm.edu/schedule

ED POL 510 Human Relations for Community Organizations & Community Engagement  
3 cr. Undergraduate/Graduate. 
Analysis of selected concepts and resources bearing on human relations training. Various approaches, e.g., Harvard case studies, to human relations will be evaluated. 
Prerequisites: jr st. 
General Education Requirements: SS 
Current Offerings: http://uwm.edu/schedule

ED POL 519 Peer Programs and Mediation: Youth Mentoring and Supporting Youth  
3 cr. Undergraduate/Graduate. 
Theory and practice of peer programs and how they are developed and sustained. 
Prerequisites: jr st. 
Course Rules: Counts as repeat of Ed Pol 579 w/same topic. 
Current Offerings: http://uwm.edu/schedule

ED POL 520 Peace Education  
3 cr. Undergraduate/Graduate. 
Discusses how education and community education can address the threats of violence and prepares students to teach about peace, nonviolence, and conflict resolution. 
Prerequisites: jr st or cons instr. Minimum of 9 hrs Soc Sci division course work. 
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013. 
Current Offerings: http://uwm.edu/schedule

ED POL 521 Nonviolence in Education  
3 cr. Undergraduate/Graduate. 
An overview of different theories of nonviolence and an examination of their applications in educational setting. 
Prerequisites: jr st; Ed Pol 520(R); Psych 201(R) or cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 522 Abusive Relationships: Community Problems, Community Solutions  
3 cr. Undergraduate/Graduate. 
The origins of relationship abuse, the legal aspects of domestic violence, and the healing process for people hurting in relationships. 
Prerequisites: jr st; Ed Pol 520(P) or cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 530 Urban Education: Foundations  
3 cr. Undergraduate/Graduate. 
Application of basic social science concepts to study of education in the urban setting. 
Prerequisites: Prereq; jr st. 
Current Offerings: http://uwm.edu/schedule

ED POL 531 Alternative Schools  
3 cr. Undergraduate/Graduate. 
Examine the alternative schools movement. 
Prerequisites: jr st. 
Course Rules: Counts as repeat of Ed Pol 330. 
Current Offerings: http://uwm.edu/schedule

ED POL 532 Male Identity: Education and Development  
3 cr. Undergraduate/Graduate. 
Contribution of schools in forming male identity. Changing expectations of men in work, the family and society. 
Prerequisites: jr st. 
Last Taught: Fall 2006, Fall 2005, Fall 2004, Fall 2003. 
Current Offerings: http://uwm.edu/schedule

ED POL 533 Educating Black Males-Theories, Methods and Strategies  
3 cr. Undergraduate/Graduate. 
This course will develop skills and strategies to affect changes in the lives of black males in the school system, k through 12 grade. 
Prerequisites: jr st; Ed Pol 112 or 375 or equiv or teacher certification. 
Last Taught: Spring 2017, Fall 2015, Fall 2014, Fall 2013. 
Current Offerings: http://uwm.edu/schedule

ED POL 534 The Student at Risk (Causes)  
3 cr. Undergraduate/Graduate. 
Helps teachers to identify and understand the personal, social, cultural and community contexts which contribute to the at-risk status of public school students.Prereq: jr st. 
Prerequisites: 
Current Offerings: http://uwm.edu/schedule

ED POL 535 Educating At-Risk Students  
3 cr. Undergraduate/Graduate. 
Development of skills and techniques to enable teachers to be instructionally effective with at-risk students. 
Prerequisites: jr st. 
Current Offerings: http://uwm.edu/schedule
ED POL 541 Wisconsin Juvenile Justice System and the Law for School Personnel
1 cr. Undergraduate/Graduate.
Provides students and school personnel with knowledge of Wisconsin juvenile justice system, and legal responsibilities of all school personnel, emphasizing current code.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 550 Comparative Education
3 cr. Undergraduate/Graduate.
Survey of foreign school systems with attention to cultural setting and major purposes.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 560 Education and Hispanics
3 cr. Undergraduate/Graduate.
Examination of the educational experiences of Hispanics in schools in the USA.
Prerequisites: jr st.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

ED POL 561 Education Issues in American Indian Communities
3 cr. Undergraduate/Graduate.
Unique political-legal, social-cultural contexts of Native Education, intergovernmental involvement and role in addressing social/cultural and developmental needs of tribal societies.
Prerequisites: jr st or cons instr.
General Education Requirements: CD
Last Taught: Spring 2010, Fall 2003.
Current Offerings: http://uwm.edu/schedule

ED POL 579 Current Topics in Cultural Foundations of Education:
1-6 cr. Undergraduate/Graduate.
Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr, including cr earned under Ed Pol 779.
Current Offerings: http://uwm.edu/schedule

ED POL 580 An Overview of Child/Youth Care
3 cr. Undergraduate/Graduate.
Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.
Prerequisites: jr st or cons instr.
Course Rules: Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ED POL 581 Youth Work Practice
3 cr. Undergraduate/Graduate.
Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.
Prerequisites: jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.
Course Rules: Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.
Current Offerings: http://uwm.edu/schedule

ED POL 582 Operations Management in Early Childhood Programs
3 cr. Undergraduate/Graduate.
An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.
Prerequisites: jr st; Ad Ldsp 581(P); or cons instr.
Course Rules: Jointly offered with & counts as repeat of Ad Ldsp 582.
Current Offerings: http://uwm.edu/schedule

ED POL 584 Early Childhood Programs and the External Environment
3 cr. Undergraduate/Graduate.
Examines external influences that impact daycare. Students explore issues of culture, community, diversity, and policy as well as technical issues related to program quality.
Prerequisites: jr st & Ad Ldsp 581(P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED POL 585 Supervised Practicum in Child and Youth Care
2-4 cr. Undergraduate/Graduate.
Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorally, cognitively and/or physically disabled youth.
Prerequisites: jr st; Ed Pol/ExcEduc/Soc Wrk 580(P), or grad st; cons instr.
Course Rules: Ed Pol/ExcEduc 585 are jointly offered & count as repeats of each other.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

ED POL 597 Public Schools, Church-State Issues: Educational Foundations
3 cr. Undergraduate/Graduate.
Examination of the intersection between church and state in public education, including historical, legal, and moral issues; discussions of religious conflicts.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ED POL 601 Foundations of Community-Based Organizations
3 cr. Undergraduate/Graduate.
Overview of community based organizations, their structures, functions, & administration. Students will also be taught proposal writing skills.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule
ED POL 602 Proposal Writing and Fundraising Skills for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Course prepares students to research, identify and apply for government funded community programs.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED POL 603 Community Policy Analysis
3 cr. Undergraduate/Graduate.
Overview of policy analysis theory and approaches and techniques used to make sound policy decisions.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2015, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

ED POL 604 Marketing for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Basic theories of marketing and the application of marketing strategies used by community-based organizations.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2017, Fall 2013, Fall 2012, Spring 2010.
Current Offerings: http://uwm.edu/schedule

ED POL 605 Community-Based Organization Funding
3 cr. Undergraduate/Graduate.
Overview of basic fiscal issues (funding types and sources, accountability issues, oversight systems, etc) impacting community-based organizations.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

ED POL 606 Quality Controls and Accountability for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Introduction to quality controls and accountability tools that community-based organizations need in an era of increased accountability.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 607 Service Learning and Community Engagement
3 cr. Undergraduate/Graduate.
Examines theories and practices of Service Learning and Community Engagement. Provides frameworks for reflection and action. Explores power, inequality and approaches to social justice.
Prerequisites: jr st or cons instr.
Course Rules: Part of concentration in Community Engagement and Partnerships.
Current Offerings: http://uwm.edu/schedule

ED POL 608 Social Media and Technology for Community Engagement
3 cr. Undergraduate/Graduate.
Introduces a variety of current visions of social media and approaches to community informatics.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2018, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ED POL 609 Community Partnerships
3 cr. Undergraduate/Graduate.
Explores different partnership environments, including: community-campus partnerships, inter-agency non-profit partnerships; governmental-non-profit partnerships; and public-private partnerships through theory and practice.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

ED POL 610 Reproduction of Minority Communities
3 cr. Undergraduate/Graduate.
Analysis of the social, economic, and cultural forces behind the formation and reproduction of minority and disadvantaged communities in the United States.
Prerequisites: jr st; any Sociol 100-level course.
Course Rules: Jointly offered w/& counts as repeat of Sociol 610.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED POL 611 Community Policies and Urban Minority Youths
3 cr. Undergraduate/Graduate.
Focus on how community policies impact urban minority youths.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 612 Community Participation and Power
3 cr. Undergraduate/Graduate.
Strategies for community participation in policy and practice; importance of understanding power relations for success. Students choose individual focus: e.g., housing, public health, education, etc.
Prerequisites: jr st.
Last Taught: Fall 2014, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ED POL 613 Context and Foundations of Educational Policy
3 cr. Undergraduate/Graduate.
Defines educational policy, studies philosophical, historical, and social contexts of educational policy, examines context of educational policy, and presents contemporary educational concerns.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 615 Service Delivery Policies & Systems for Community-Based Organizations
3 cr. Undergraduate/Graduate.
Overview of key policies used by community-based organizations in developing service delivery systems.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 620 History of the Education of African Americans
3 cr. Undergraduate/Graduate.
Study of the history, biographies, trends, cultural influences, and movements in the education of African Americans: Africa to slavery to the present. Comparison with ‘white education.’
Prerequisites: jr st.
Last Taught: Fall 2014, Summer 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
ED POL 621 History of Native Education and Policy Development
3 cr. Undergraduate/Graduate.
Historic policy development affecting the education of American Indians including the development of schools and the relationship of education to federal Indian policy.
Prerequisites: jr st or cons instr.
General Education Requirements: CD
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ED POL 624 Gender and Education
3 cr. Undergraduate/Graduate.
Overview of the major discussions and debates in the area of gender, focusing on the intersections of gender, race, class, ethnicity, and sexuality.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 625 Race Relations in Education
3 cr. Undergraduate/Graduate.
Study and analysis of historical and theoretical bases of racism/race relations in America and their influences on contemporary educational policies and practices.
Prerequisites: jr st.
General Education Requirements: CD
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

ED POL 626 Antiracist Education
3 cr. Undergraduate/Graduate.
Comparative perspectives on racism and antiracism in society and education.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Pol 579 with same topic.
Current Offerings: http://uwm.edu/schedule

ED POL 630 Race and Public Policy in Urban America
3 cr. Undergraduate/Graduate.
Examination of the relationship between race and public policy with emphasis on issues (housing, crime, welfare reform, poverty, employment, discrimination, etc.) impacting urban communities.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

ED POL 633 Community Development for Low-Income and Minority Communities
3 cr. Undergraduate/Graduate.
Introduction to the principles, ideas, and techniques of community development and the development of minority communities.
Prerequisites: jr st.
Last Taught: Fall 2016, Spring 2015, Spring 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ED POL 636 Issues in African American Education
3 cr. Undergraduate/Graduate.
Contemporary issues in African American education, including special education, poverty, and academics, and their historical contexts.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED POL 639 Milwaukee Black Community
3 cr. Undergraduate/Graduate.
Overview of the social, historical, economic and political developments of Milwaukee's Black community.
Prerequisites: jr st.
Last Taught: Spring 2015.
Current Offerings: http://uwm.edu/schedule

ED POL 640 The Rise and Fall of America's Southern Civil Rights Movement
3 cr. Undergraduate/Graduate.
African Americans' struggle for Civil Rights in the South, focusing on issues such as education, housing, and politics; social and historical context for related policies.
Prerequisites: jr st.
Last Taught: Spring 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ED POL 650 The Civil Rights Movement in Northern Cities
3 cr. Undergraduate/Graduate.
Exploration of the Civil Rights Movement in northern cities, focusing on issues such as education, housing, and politics; social and historical context for related policies.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 660 History of Western Education
3 cr. Undergraduate/Graduate.
Chronological narrative examining educational systems in western countries through the development of various civilizations from ancient Egypt to Europe.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED POL 668 Fieldwork in Multicultural Education
1-6 cr. Undergraduate/Graduate.
Fieldwork in multicultural settings appropriate for cultural research, analysis and study. Individualized requirements and evaluation criteria to be determined by faculty on individualized bases.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED POL 698 Fieldwork in International Education
1-6 cr. Undergraduate/Graduate.
Fieldwork in intercultural settings appropriate for cultural research, analysis and study. Requirements and evaluation criteria to be determined by faculty on individualized basis.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ED POL 702 Cultural Foundations of Education Graduate Seminar
3 cr. Graduate.
Introduction to graduate studies. Provides students the skills and knowledge needed to succeed in graduate school.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grade Level</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Last Taught</th>
<th>Current Offerings</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 711</td>
<td>Community Change and Engagement Strategies:</td>
<td>3</td>
<td>Graduate</td>
<td>History of community change and engagement strategies in America. Strategies for planning and action to address inequality. Students can focus on issue from area of interest.</td>
<td>grad st.</td>
<td>Spring 2015, Fall 2014, Fall 2013, Fall 2011.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>ED POL 712</td>
<td>Community Participation and Power: Advanced Topics</td>
<td>3</td>
<td>Graduate</td>
<td>Strategies for community participation in policy and practice. Importance of understanding power relations for success. Students choose individual issue focus: e.g., housing, public health, education, the environment, health care, etc.</td>
<td>grad st.</td>
<td>Fall 2012, Fall 2005.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>ED POL 713</td>
<td>Structural/Political Analysis in Community Engagement and Popular Education</td>
<td>3</td>
<td>Graduate</td>
<td>Theoretical overview of structural and political analysis, focused mainly on the major strands in political economy conducted in relation to specific community case studies.</td>
<td>grad st; cons instr</td>
<td>Spring 2013, Spring 2011.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>ED POL 714</td>
<td>Practical and Theoretical Issues in Community Change and Engagement</td>
<td>3</td>
<td>Graduate</td>
<td>Theoretical overview and strategic implications of some of the major social issues confronting community change practitioners, including race/class/gender dynamics, intercultural communication, and leadership.</td>
<td>grad st; cons instr</td>
<td>Fall 2015, Spring 2014, Fall 2011.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>ED POL 721</td>
<td>Data Analysis for Educational Policy &amp; Community Engagement</td>
<td>3</td>
<td>Graduate</td>
<td>Provides students with basic quantitative skills needed for gathering, organizing, interpreting, reporting and presenting data to impact community policies.</td>
<td>grad st.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
<td></td>
</tr>
<tr>
<td>ED POL 725</td>
<td>Community Organizing in Low-Income and Minority Communities</td>
<td>3</td>
<td>Graduate</td>
<td>Overview of issues related to organizing in low-income and minority communities.</td>
<td>grad st.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
<td></td>
</tr>
<tr>
<td>ED POL 750</td>
<td>History of Education in American Communities</td>
<td>3</td>
<td>Graduate</td>
<td>Study of consensus and conflict in the ideas and issues shaping education and community in the changing U.S. society; includes an emphasis on the education and engagement of immigrants, minorities and women in and outside of mainstream society.</td>
<td>grad st.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
<td></td>
</tr>
<tr>
<td>ED POL 770</td>
<td>History of Urban Education Reform Policies</td>
<td>3</td>
<td>Graduate</td>
<td>Historical overview of urban education reform efforts in America.</td>
<td>grad st.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
<td></td>
</tr>
<tr>
<td>ED POL 780</td>
<td>Urban Education Policies and Community: Problems and Opportunities</td>
<td>3</td>
<td>Graduate</td>
<td>Issues impacting urban school districts.</td>
<td>grad st.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
<td></td>
</tr>
</tbody>
</table>
ED POL 791 Action Research: Capstone Workshop
3 cr. Graduate.
Capstone research course for students in the Cultural Foundations of Education MS program
Prerequisites: grad st; Ed Pol 710 and 705 (P), 740 & 750 (P) or (C) plus 6 addl cr; cons instr. 
Course Rules: Open to Cultural Foundations Students only. 
Current Offerings: http://uwm.edu/schedule

ED POL 799 Independent Reading
1-3 cr. Graduate.
For benefit of grad students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 801 Urban Education: Doctoral Seminar
1-3 cr. Graduate.
Administrative leadership and policy development in urban education.
Prerequisites: grad st; Educ 701(P); admis Urban Ed Ph.D. prog
Course Rules: Retakable to 3 cr max.
Last Taught: Fall 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ED POL 805 Sociology of Education: Seminar
3 cr. Graduate.
Evaluation of theory, scholarly research, and issues in the sociology of education, with emphasis on empirical studies of social stratification and social mobility.
Prerequisites: Doctoral st or cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 822 Global Educational Studies
3 cr. Graduate.
Study of worldwide growth in learning needs and how to meet them; inequalities between and within countries; and proposed reforms, innovations and technologies.
Prerequisites: grad st. 
Last Taught: Fall 2015, Spring 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ED POL 823 Multicultural Education
3 cr. Graduate.
Study of cultural diversity and its relationship to educational theory and practice. Emphasis upon developing and analyzing programs with a multicultural emphasis.
Prerequisites: grad st; Ed Pol 705(P) or 750(P) or cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 833 Seminar in Multicultural Education
3 cr. Graduate.
Emphasis upon devising an individually defined study of a specific educational issue or practice to encourage development of multicultural education.
Prerequisites: grad st; Ed Pol 688(P) or 823(P) or cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 837 Emergent Methods in Qualitative Research for Social Foundations
3 cr. Graduate.
Provides students an advance overview of state-of-the-art qualitative research methods.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ED POL 840 Seminar in Educational Theory
3 cr. Graduate.
Examination of prominent theories of education and society and application to current educational issues and contexts.
Prerequisites: Doctoral st or cons instr. 
Last Taught: Fall 2017, Fall 2014, Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ED POL 850 Seminar in History of American Education
3 cr. Graduate.
Historical background of contemporary debates and controversies in American education.
Prerequisites: Doctoral st or cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st. 
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

ED POL 897 Seminar in the Philosophy and History of Adult Education
3 cr. Graduate.
Philosophical foundations related to the historical movement of adult education and implications for future directions.
Prerequisites: grad st; Ad Ldsp 657 or cons instr. 
Current Offerings: http://uwm.edu/schedule

ED POL 990 Research or Thesis
1-3 cr. Graduate.
Prerequisites: grad st. 
Current Offerings: http://uwm.edu/schedule

ED POL 999 Independent Reading
1-3 cr. Graduate.
Variable content course.
Prerequisites: master’s degree. 
Course Rules: Retakeable to max of 9 cr.
Current Offerings: http://uwm.edu/schedule
Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frank Besag</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Bonds</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edgar Epps</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Illinois at Urbana-Champaign</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raquel Farmer-Hinton</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walter Farrell</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ian Harris</td>
<td>Professor</td>
<td>EdD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Florence Johnson</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
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</tr>
<tr>
<td>Julie Kailin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Claremont Graduate University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ronald Podeschi</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kalyani Rai</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Syracuse University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marie Sandy</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aaron Schutz</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rajeswari Swaminathan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Javier Tapia</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Arizona</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aria Troiano</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
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<tr>
<td>Gary Williams</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
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<tr>
<td>Henry Woessner</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Community Engagement and Education, BS

The Community Engagement and Education Program is designed for students interested in changing their community, working in non-school educational roles, leadership in community-based organizations or teaching in private or alternative schools. Some students also pursue licensure for teaching in public schools after graduation.

Courses are offered during the day as well as online, in the evening and on weekends. We also give academic credit for prior professional experience. Areas of study include child care, youth work, urban education, alternative education, policy and leadership in community-based organizations, and community engagement and social action.

Our graduates work as youth leaders and educators, administrators in community-based organizations, teachers and directors of child care and head start centers, community organizers, and state and local elected officials.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements</td>
<td>12-42</td>
</tr>
<tr>
<td></td>
<td>Program Core</td>
<td>93</td>
</tr>
<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>120</td>
</tr>
</tbody>
</table>

* Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

University General Education Requirements (GERs)
The Department requires its students to meet the University’s General Education Requirements. Community Engagement and Education majors have until the beginning of their junior year (58 credits) to meet this requirement. See your advisor to find out which set of Competency Requirements you must fulfill.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GER Competency Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>English Placement Test score at level 4 or higher, or pass English 102 (OWC-A approved) with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part B</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Complete an OWC-B approved advanced course with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Math Placement test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better (QL-A approved)</td>
<td></td>
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<tr>
<td></td>
<td>Quantitative Literacy, Part B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete a QL-B approved advanced course with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
<td></td>
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<tr>
<td></td>
<td>Demonstrate language proficiency on approved exam</td>
<td></td>
</tr>
</tbody>
</table>

GER Distribution Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-A designated course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Select two approved GER-HU designated courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Select two approved GER-SS designated courses</td>
<td></td>
</tr>
</tbody>
</table>
Natural Sciences
Select one approved GER-NS or GER-NS+ designated course
Select one approved GER-NS+ designated course, which includes a lab component

Cultural Diversity
Select one approved GER-CD designated course

Total Credits 12-42

1 Credit earned for GER Competency may also count toward electives.
2 Program-specific required courses fulfill, or partially fulfill, University GER Competency and/or Distribution requirements. See Program Core for specific courses.

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Expository Writing&lt;br&gt;ENGLISH 201&lt;br&gt;ENGLISH 202&lt;br&gt;ENGLISH 205&lt;br&gt;ENGLISH 206&lt;br&gt;ENGLISH 207&lt;br&gt;ENGLISH 214&lt;br&gt;ENGLISH 230</td>
<td>Strategies for Academic Writing (OWC-B) Writing in the Humanities Business Writing (OWC-B) Technical Writing (OWC-B) Health Science Writing (OWC-B) Writing in the Professions: (subtitle, OWC-B) Writing with Style</td>
<td>3</td>
</tr>
<tr>
<td>Lower Division Required Courses&lt;br&gt;ED POL 111&lt;br&gt;ED POL 112&lt;br&gt;ED POL 113&lt;br&gt;ED POL 114</td>
<td>Introduction to Community Change and Engagement Introduction to Community Education The Milwaukee Community (GER-SS) Community Problems</td>
<td>3</td>
</tr>
<tr>
<td>Lower-Division Electives&lt;br&gt;Select 39 credits of upper- or lower-division courses from any school/college</td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>Upper Division Required Courses&lt;br&gt;ED POL 375&lt;br&gt;ED POL 506&lt;br&gt;ED POL 601&lt;br&gt;ED POL 630</td>
<td>Cultural Foundations of Education Research Techniques for Community Organizers and Community Educators Foundations of Community-Based Organizations Race and Public Policy in Urban America</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Diversity&lt;br&gt;Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ED POL 460&lt;br&gt;ED POL 532&lt;br&gt;ED POL 533&lt;br&gt;ED POL 560&lt;br&gt;ED POL 561</td>
<td>The Chicano Experience (GER-CD, GER-HU) Male Identity: Education and Development Educating Black Males-Theories, Methods and Strategies Education and Hispanics (GER-CD, GER-SS) Education Issues in American Indian Communities (GER-CD)</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 610&lt;br&gt;ED POL 620&lt;br&gt;ED POL 621&lt;br&gt;ED POL 624&lt;br&gt;ED POL 625&lt;br&gt;ED POL 626</td>
<td>Reproduction of Minority Communities History of the Education of African Americans History of Native Education and Policy Development (GER-CD) Gender and Education Race Relations in Education (GER-CD) Antiracist Education</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>93</td>
<td></td>
</tr>
</tbody>
</table>

3 Students may earn elective units through Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.
4 A maximum of 6 credits of fieldwork (ED POL 509, ED POL 688, or ED POL 698) may be used toward meeting this requirement; ED POL 499 cannot be used.
5 Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

Additional Requirements for Graduation
- 2.5 cumulative GPA in all program requirements.

Opportunities

Prior Professional Education Experience (PPEE)
A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to "pass" the course and receive at least 3 credits, a student must attempt 7 of the 14 competency area essay exams listed below.

Competency Areas

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Perspectives on Human Resource Programs</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Resource Development</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Local Community Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Political/Economic Analysis</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Personal Growth Competency</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Philosophies of Change</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Group Process Skills</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Leadership Issues</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Research Skills</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Change Strategies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Educational Advocacy</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Administrative Skills</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Problem Analysis</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Conflict Resolution</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course, ED POL 100 Community Education I, during their first or second semester of study. PPEE students have the opportunity to earn a maximum of 42 credits, which will only apply toward a Community Engagement and Education degree and only as lower-division electives. Students who leave the CEED program will not be able to use these credits in other programs.

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Scheduling an Appointment**

Office of Student Services
Enders Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

**Walk-In Hours**

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

**Transfer Student Not Yet Enrolled at UWM?**

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

**Graduate Advising**

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

**Honors in the School of Education**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Community Engagement and Education, BS: Child and Family Services**

The Community Engagement and Education Program is designed for students interested in changing their community, working in non-school educational roles, leadership in community-based organizations or teaching in private or alternative schools. Some students also pursue licensure for teaching in public schools after graduation.

Courses are offered during the day as well as online, in the evening and on weekends. We also give academic credit for prior professional experience. Areas of study include child care, youth work, urban education, alternative education, policy and leadership in community-based organizations, and community engagement and social action.

Our graduates work as youth leaders and educators, administrators in community-based organizations, teachers and directors of child care and head start centers, community organizers, and state and local elected officials.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements</td>
<td>12-42</td>
</tr>
<tr>
<td></td>
<td>Program Core</td>
<td>101</td>
</tr>
<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>120</td>
</tr>
</tbody>
</table>

* Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

**University General Education Requirements (GERs)**

The Department requires its students to meet the University’s General Education Requirements. Community Engagement and Education majors...
have until the beginning of their junior year (58 credits) to meet this requirement. See your advisor to find out which set of Competency Requirements you must fulfill.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER</td>
<td>Competency Requirements 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Oral and Written Communication, Part A</strong></td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>English Placement Test score at level 4 or higher, or pass English 102 (OWC-A approved) with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Oral and Written Communication, Part B</strong> 2</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Complete an OWC-B approved advanced course with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy, Part A</strong></td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better (QL-A approved)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy, Part B</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete a QL-B approved advanced course with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Foreign Language</strong></td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
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</tr>
<tr>
<td></td>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Demonstrate language proficiency on approved exam</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>GER Distribution Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-A designated course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong> 2</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Select two approved GER-HU designated courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong> 2</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Select two approved GER-SS designated courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-NS or GER-NS+ designated course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-NS+ designated course, which includes a lab component</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Cultural Diversity</strong> 2</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-CD designated course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>12-42</td>
</tr>
</tbody>
</table>

1 Credit earned for GER Competency may also count toward electives.

2 Program-specific required courses fulfill, or partially fulfill, University GER Competency and/or Distribution requirements. See Program Core for specific courses.

### Program Core

**Advanced Expository Writing**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (OWC-B)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 202</td>
<td>Writing in the Humanities</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing (OWC-B)</td>
<td></td>
</tr>
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</table>

### Lower Division Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 112</td>
<td>Introduction to Community Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 113</td>
<td>The Milwaukee Community (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 114</td>
<td>Community Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 100</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 206</td>
<td>Introduction to Social Welfare Policy</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 250</td>
<td>Human Behavior and the Social Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

### Lower Division Electives 3

Select 30 credits of upper or lower division courses from any school/college

### Upper Division Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 506</td>
<td>Research Techniques for Community Organizers and Community Educators</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 509</td>
<td>Fieldwork/Practicum in Education and the Community (in a child and family-serving agency)</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 601</td>
<td>Foundations of Community-Based Organizations</td>
<td>3</td>
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<tr>
<td>ED POL 630</td>
<td>Race and Public Policy in Urban America</td>
<td>3</td>
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</table>

### Cultural Diversity

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 460</td>
<td>The Chicano Experience (GER-CD, GER-HU)</td>
<td>3</td>
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<tr>
<td>ED POL 532</td>
<td>Male Identity: Education and Development</td>
<td></td>
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<tr>
<td>ED POL 533</td>
<td>Educating Black Males-Theories, Methods and Strategies</td>
<td></td>
</tr>
<tr>
<td>ED POL 560</td>
<td>Education and Hispanics (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>ED POL 561</td>
<td>Education Issues in American Indian Communities (GER-CD)</td>
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<tr>
<td>ED POL 610</td>
<td>Reproduction of Minority Communities</td>
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<tr>
<td>ED POL 620</td>
<td>History of the Education of African Americans</td>
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</tr>
<tr>
<td>ED POL 621</td>
<td>History of Native Education and Policy Development (GER-CD)</td>
<td></td>
</tr>
<tr>
<td>ED POL 624</td>
<td>Gender and Education</td>
<td></td>
</tr>
<tr>
<td>ED POL 625</td>
<td>Race Relations in Education (GER-CD)</td>
<td></td>
</tr>
<tr>
<td>ED POL 626</td>
<td>Antiracist Education</td>
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</tbody>
</table>

### Community-Based Organization Practice

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 602</td>
<td>Proposal Writing and Fundraising Skills for Community-Based Organizations</td>
<td></td>
</tr>
<tr>
<td>ED POL 604</td>
<td>Marketing for Community-Based Organizations</td>
<td></td>
</tr>
<tr>
<td>ED POL 605</td>
<td>Community-Based Organization Funding</td>
<td></td>
</tr>
</tbody>
</table>
A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to "pass" the course and receive at least a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to "pass" the course and receive at least a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost.

**Competency Areas**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community</td>
<td>Perspectives on Human Resource Programs</td>
<td>3</td>
</tr>
<tr>
<td>Resource</td>
<td>Development</td>
<td>3</td>
</tr>
<tr>
<td>Local Community</td>
<td>Systems</td>
<td>3</td>
</tr>
<tr>
<td>Political/Economic</td>
<td>Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Personal Growth</td>
<td>Competency</td>
<td>3</td>
</tr>
<tr>
<td>Philosophies</td>
<td>of Change</td>
<td>3</td>
</tr>
<tr>
<td>Group Process</td>
<td>Skills</td>
<td>3</td>
</tr>
<tr>
<td>Leadership</td>
<td>Issues</td>
<td>3</td>
</tr>
<tr>
<td>Research</td>
<td>Skills</td>
<td>3</td>
</tr>
<tr>
<td>Change Strategies</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Educational</td>
<td>Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>Administrative</td>
<td>Skills</td>
<td>3</td>
</tr>
<tr>
<td>Social Problem</td>
<td>Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Conflict</td>
<td>Resolution</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Requirements for Graduation**

- 2.5 cumulative GPA in all program requirements.

**Opportunities**

**Prior Professional Education Experience (PPEE)**

Prior Professional Education Experience (PPEE) opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study. Undergraduate Advising

- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Scheduling an Appointment**

Office of Student Services

Enderis Hall, Room 209

(414) 229-4721

soeinfo@uwm.edu

**Walk-In Hours**

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

**Transfer Student Not Yet Enrolled at UWM?**

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

**Graduate Advising**

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).
Community Engagement and Education, BS: Child Care

Honors in the School of Education

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

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Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University General Education Requirements *</td>
<td>12-42</td>
<td></td>
</tr>
<tr>
<td>Program Core</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>Track Requirements</td>
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<td></td>
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<tr>
<td>Minimum credits for degree</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

* Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

University General Education Requirements (GERs)
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</tr>
</thead>
<tbody>
<tr>
<td>GER Competency Requirements 1</td>
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<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part A</td>
<td>0-3</td>
<td></td>
</tr>
<tr>
<td>English Placement Test score at level 4 or higher, or pass English 102 (OWC-A approved) with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part B 2</td>
<td>0-3</td>
<td></td>
</tr>
<tr>
<td>Complete an OWC-B approved advanced course with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy, Part A</td>
<td>0-3</td>
<td></td>
</tr>
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<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better (QL-A approved)</td>
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<td></td>
</tr>
<tr>
<td>Quantitative Literacy, Part B</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Complete a QL-B approved advanced course with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td>0-6</td>
<td></td>
</tr>
<tr>
<td>Complete one of the following:</td>
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<td></td>
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<td></td>
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<tr>
<td>Demonstrate language proficiency on approved exam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER Distribution Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one approved GER-A designated course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities 2</td>
<td>0-6</td>
<td></td>
</tr>
<tr>
<td>Select two approved GER-HU designated courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Sciences 2</td>
<td>0-6</td>
<td></td>
</tr>
<tr>
<td>Select two approved GER-SS designated courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select one approved GER-NS or GER-NS+ designated course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one approved GER-NS+ designated course, which includes a lab component</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity 2</td>
<td>0-3</td>
<td></td>
</tr>
<tr>
<td>Select one approved GER-CD designated course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>12-42</td>
<td></td>
</tr>
</tbody>
</table>

1 Credit earned for GER Competency may also count toward electives.
2 Program-specific required courses fulfill, or partially fulfill, University GER Competency and/or Distribution requirements. See Program Core for specific courses.

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Expository Writing</td>
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<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 202</td>
<td>Writing in the Humanities</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing (OWC-B)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing (OWC-B)</td>
<td></td>
</tr>
</tbody>
</table>
### ENGLISH 214
Writing in the Professions: (subtitle, OWC-B)

### ENGLISH 230
Writing with Style

### Lower Division Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 112</td>
<td>Introduction to Community Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 113</td>
<td>The Milwaukee Community (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 114</td>
<td>Community Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

### Lower-Division Electives

- Select 39 credits of upper- or lower-division courses from any school/college  
  
### Upper Division Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ED POL 506</td>
<td>Research Techniques for Community Organizers and Community Educators</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 601</td>
<td>Foundations of Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 630</td>
<td>Race and Public Policy in Urban America</td>
<td>3</td>
</tr>
</tbody>
</table>

### Cultural Diversity

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 625</td>
<td>Race Relations in Education (GER-CD)</td>
<td></td>
</tr>
</tbody>
</table>

### Educational Policy Foundations

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>or ED POL 530</td>
<td>Urban Education: Foundations</td>
<td></td>
</tr>
<tr>
<td>ED POL 534</td>
<td>The Student at Risk (Causes)</td>
<td>3</td>
</tr>
<tr>
<td>or ED POL 535</td>
<td>Educating At-Risk Students</td>
<td></td>
</tr>
</tbody>
</table>

### Child Care Foundations

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 381</td>
<td>Introduction to Child Care:</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 383</td>
<td>Child Care Programming:</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 75

### Track Requirement

Students must chose one of two tracks to follow in order to complete the program.

#### Code Title Credits

**Educator Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 302</td>
<td>Approaches to Relationships in the Child Care Setting</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 340</td>
<td>Organizing and Operating a Child Care Center</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 416</td>
<td>Analysis of Child Care Environments</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 585</td>
<td>Best Practices in Early Childhood for Children and Families</td>
<td>3</td>
</tr>
</tbody>
</table>

### Upper Division Electives

- Select 6 credits at the 300-level or higher from any school/college or transfer credit equivalent  
  
Total Credits 18

### Administrator Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL/AD LDSP 582</td>
<td>Operations Management in Early Childhood Programs</td>
<td>3</td>
</tr>
</tbody>
</table>

### Additional Requirements for Graduation

- 2.5 cumulative GPA in all program requirements.

### Opportunities

**Prior Professional Education Experience (PPEE)**

A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to “pass” the course and receive at least 3 credits, a student must attempt 7 of the 14 competency area essay exams listed below.

#### Competency Areas

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 584</td>
<td>Early Childhood Programs and the External Environment</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 581</td>
<td>Administration and Supervision in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 583</td>
<td>Financial Management and Planning in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 586</td>
<td>Administrative Seminar: Leadership in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 585</td>
<td>Best Practices in Early Childhood for Children and Families</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

4 Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

5 Students completing a Child Care track may be eligible for an additional Certificate and/or Credential. See Opportunities (p. 470) for details.

Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course, ED POL 100 Community Education I, during their first or second semester of study. PPEE students have the opportunity to earn a maximum of 42 credits, which will only apply toward a Community Engagement and Education degree and only as lower-
division electives. **Students who leave the CEED program will not be able to use these credits in other programs.**

**Undergraduate Advising**

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**How to Prepare for an Advising Meeting**

- Come prepared with questions or topics for discussion.
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- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
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- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

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**Transfer Student Not Yet Enrolled at UWM?**

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**Additional Certificate and/or Credential**

Students completing ED POL 302, ED POL 381, ED POL 383 and ED POL 416 also earn a Certificate in Child Care Program Development from the UWM Center for Early Childhood Professional Development & Leadership (CECPDL), and are eligible to commission for the Program Development Credential from The Registry.

Students completing the 6 Administrator Track courses within 3 years receive a Certificate in Child Care Administration from the UWM CECPDL, and, upon completing the capstone project, are eligible to commission for the Wisconsin Professional Credential for Child Care Administrators from The Registry. The Registry requires that students earn a grade of at least C- in all of the Child Care Administrator courses for the Credential.

**Honors in the School of Education**

**Dean's Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Community Engagement and Education, BS: Community Leadership**

The Community Engagement and Education Program is designed for students interested in changing their community, working in non-school educational roles, leadership in community-based organizations or teaching in private or alternative schools. Some students also pursue licensure for teaching in public schools after graduation.

Courses are offered during the day as well as online, in the evening and on weekends. We also give academic credit for prior professional experience. Areas of study include child care, youth work, urban education, alternative education, policy and leadership in community-based organizations, and community engagement and social action.

Our graduates work as youth leaders and educators, administrators in community-based organizations, teachers and directors of child care and head start centers, community organizers, and state and local elected officials.
Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements *</td>
<td>12-42</td>
</tr>
<tr>
<td></td>
<td>Program Core</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>120</td>
</tr>
</tbody>
</table>

* Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

### University General Education Requirements (GERs)

The Department requires its students to meet the University’s General Education Requirements. Community Engagement and Education majors have until the beginning of their junior year (58 credits) to meet this requirement. See your advisor to find out which set of Competency Requirements you must fulfill.

#### GER Competency Requirements

1. **Oral and Written Communication, Part A**
   - English Placement Test score at level 4 or higher, or pass English 102 (OWC-A approved) with a grade of C or better

2. **Oral and Written Communication, Part B**
   - Complete an OWC-B approved advanced course with a grade of C or better

3. **Quantitative Literacy, Part A**
   - Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better (QL-A approved)

4. **Quantitative Literacy, Part B**
   - Complete a QL-B approved advanced course with a grade of C or better

5. **Foreign Language**
   - Complete one of the following:
     - 2 consecutive semesters of college instruction in a single foreign language with passing grades
     - 2 consecutive years of high school instruction in a single foreign language with passing grades
     - Demonstrate language proficiency on approved exam

#### GER Distribution Requirements

1. **Arts**
   - Select one approved GER-A designated course

2. **Humanities**
   - Select two approved GER-HU designated courses

3. **Social Sciences**
   - Select two approved GER-SS designated courses

4. **Natural Sciences**
   - Select one approved GER-NS or GER-NS+ designated course
   - Select one approved GER-NS+ designated course, which includes a lab component

5. **Cultural Diversity**
   - Select one approved GER-CD designated course

#### Total Credits
- 12-42

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1. Credit earned for GER Competency may also count toward electives.
2. Program-specific required courses fulfill, or partially fulfill, University GER Competency and/or Distribution requirements. See Program Core for specific courses.

### Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Advanced Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
</tr>
<tr>
<td></td>
<td>ED POL 112</td>
<td>Introduction to Community Education</td>
</tr>
<tr>
<td></td>
<td>ED POL 113</td>
<td>The Milwaukee Community (GER-SS)</td>
</tr>
<tr>
<td></td>
<td>ED POL 114</td>
<td>Community Problems</td>
</tr>
<tr>
<td></td>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
</tr>
<tr>
<td></td>
<td>ED POL 506</td>
<td>Research Techniques for Community Organizers and Community Educators</td>
</tr>
<tr>
<td></td>
<td>ED POL 601</td>
<td>Foundations of Community-Based Organizations</td>
</tr>
<tr>
<td></td>
<td>ED POL 630</td>
<td>Race and Public Policy in Urban America</td>
</tr>
</tbody>
</table>

#### Cultural Diversity

1. Select one of the following:
   - ED POL 460 | The Chicano Experience (GER-CD, GER-HU) |
   - ED POL 532 | Male Identity: Education and Development |
   - ED POL 533 | Educating Black Males-Theories, Methods and Strategies |
   - ED POL 560 | Education and Hispanics (GER-CD, GER-SS) |
   - ED POL 561 | Education Issues in American Indian Communities (GER-CD) |
   - ED POL 610 | Reproduction of Minority Communities |
   - ED POL 620 | History of the Education of African Americans |
   - ED POL 621 | History of Native Education and Policy Development (GER-CD) |
   - ED POL 624 | Gender and Education |
   - ED POL 625 | Race Relations in Education (GER-CD) |
   - ED POL 626 | Antiracist Education |
Community Leadership Foundations

ED POL 315  Group Process and Civic Engagement: Community Leadership  3

Community Leadership & Community Engagement Professional Standards

AD LDSP 579  Current Topics in Administrative Leadership: Human Relations for Community Organizations & Community Engagement  3

or ED POL 510

Community Leadership Focus

Select 3 from the following:  9

ED POL 509  Fieldwork/Practicum in Education and the Community
ED POL 603  Community Policy Analysis
ED POL 607  Service Learning and Community Engagement
ED POL 608  Social Media and Technology for Community Engagement
ED POL 609  Community Partnerships
ED POL 610  Reproduction of Minority Communities
ED POL 612  Community Participation and Power
ED POL 633  Community Development for Low-Income and Minority Communities

Management and Leadership

Select one of the following:  3

AD LDSP 507  Introduction to Group Leadership
AD LDSP 537  Leadership and Management of Volunteer Programs
AD LDSP 607  Coordination of Staff Development and Training Program
AD LDSP 617  Leadership in Youth-Serving Organizations
AD LDSP 647  Evaluation of Adult, Continuing, and Higher Education Programs
AD LDSP 667  Program Planning in Adult Education

Social/Historical Foundations

Select one of the following:  3

ED POL 640  The Rise and Fall of America's Southern Civil Rights Movement
ED POL 650  The Civil Rights Movement in Northern Cities
COMMUN 472  Rhetoric of Radicalism in the United States
HIST 440  History of the American Working Classes
HIST 446  African Americans Since the Civil War
HIST 460  The History of Poverty in America
HIST 468  The American Feminist Movement
SOCIOL 235  Social Change in the Global Economy (GER-SS)
SOCIOL 304  Political Sociology
SOCIOL 321  Contemporary Issues of the American Indian (GER-CD, GER-SS)
SOCIOL 323  Perspectives on Latino Communities (GER-CD, GER-SS)
SOCIOL 324  Comparative Race Relations

SOCIOL 325  Social Change
SOCIOL 333  Social Class in Industrial Society
WGS 303  Feminist Activism and Movements:

Leadership Capstone/Practicum

Select one of the following:  3

ED POL 509  Fieldwork/Practicum in Education and the Community
AD LDSP 630  Field Work in Schools, Agencies and Institutions
COMMUN 698  Internship in Communication
NURS 403  Practice, Research and Leadership Role Development
WGS 489  Internship in Women's and Gender Studies

Upper Division Electives

Select 3 credits of 300-level or higher courses from any school/college  3

Total Credits  96

3 Students may earn elective units through Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

4 Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

Additional Requirements for Graduation

- 2.5 cumulative GPA in all program requirements.

Opportunities

Prior Professional Education Experience (PPEE)

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Competency Areas

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Community Perspectives on Human Resource Programs</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Resource Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Local Community Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Political/Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Personal Growth Competency</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Philosophies of Change</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Group Process Skills</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Leadership Issues</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Research Skills</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Change Strategies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Educational Advocacy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Administrative Skills</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social Problem Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Conflict Resolution 3
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<th>Credits</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>University General Education Requirements *</td>
<td>12-42</td>
</tr>
<tr>
<td></td>
<td>Program Core</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>120</td>
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<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>GER Competency Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part A</td>
<td>English Placement Test score at level 4 or higher, or pass English 102 (OWC-A approved) with a grade of C or better</td>
<td>0-3</td>
</tr>
<tr>
<td>Oral and Written Communication, Part B</td>
<td>Complete an OWC-B approved advanced course with a grade of C or better</td>
<td>0-3</td>
</tr>
<tr>
<td>Quantitative Literacy, Part A</td>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better (QL-A approved)</td>
<td>0-3</td>
</tr>
<tr>
<td>Quantitative Literacy, Part B</td>
<td>Complete a QL-B approved advanced course with a grade of C or better</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Complete one of the following:</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Demonstrate language proficiency on approved exam</td>
<td></td>
</tr>
<tr>
<td>GER Distribution Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td>Select one approved GER-A designated course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select two approved GER-HU designated courses</td>
<td>0-6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Select two approved GER-SS designated courses</td>
<td>0-6</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one approved GER-NS or GER-NS+ designated course</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-NS+ designated course, which includes a lab component</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Select one approved GER-CD designated course</td>
<td>0-3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12-42</td>
</tr>
</tbody>
</table>

1 Credit earned for GER Competency may also count toward electives.

2 Program-specific required courses fulfill, or partially fulfill, University GER Competency and/or Distribution requirements. See Program Core for specific courses.

**Program Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions: (subtitle, OWC-B)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 230</td>
<td>Writing with Style</td>
<td></td>
</tr>
<tr>
<td>Lower Division Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 112</td>
<td>Introduction to Community Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 113</td>
<td>The Milwaukee Community (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 114</td>
<td>Community Problems</td>
<td>3</td>
</tr>
<tr>
<td>Lower Division Electives</td>
<td>Select 39 credits of upper or lower division courses from any school/college</td>
<td>39</td>
</tr>
<tr>
<td>Upper Division Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 506</td>
<td>Research Techniques for Community Organizers and Community Educators</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 601</td>
<td>Foundations of Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 630</td>
<td>Race and Public Policy in Urban America</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 460</td>
<td>The Chicano Experience (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ED POL 532</td>
<td>Male Identity: Education and Development</td>
<td></td>
</tr>
<tr>
<td>ED POL 533</td>
<td>Educating Black Males-Theories, Methods and Strategies</td>
<td></td>
</tr>
<tr>
<td>ED POL 560</td>
<td>Education and Hispanics (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>ED POL 561</td>
<td>Education Issues in American Indian Communities (GER-CD)</td>
<td></td>
</tr>
<tr>
<td>ED POL 610</td>
<td>Reproduction of Minority Communities</td>
<td></td>
</tr>
<tr>
<td>ED POL 620</td>
<td>History of the Education of African Americans</td>
<td></td>
</tr>
<tr>
<td>ED POL 621</td>
<td>History of Native Education and Policy Development (GER-CD)</td>
<td></td>
</tr>
<tr>
<td>ED POL 624</td>
<td>Gender and Education</td>
<td></td>
</tr>
<tr>
<td>ED POL 625</td>
<td>Race Relations in Education (GER-CD)</td>
<td></td>
</tr>
<tr>
<td>ED POL 626</td>
<td>Antiracist Education</td>
<td></td>
</tr>
<tr>
<td>CBO Policy Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED POL 602</td>
<td>Proposal Writing and Fundraising Skills for Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 605</td>
<td>Community-Based Organization Funding</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 509</td>
<td>Fieldwork/Practicum in Education and the Community</td>
<td></td>
</tr>
<tr>
<td>ED POL 510</td>
<td>Human Relations for Community Organizations &amp; Community Engagement</td>
<td></td>
</tr>
<tr>
<td>ED POL 603</td>
<td>Community Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>ED POL 604</td>
<td>Marketing for Community-Based Organizations</td>
<td></td>
</tr>
<tr>
<td>ED POL 609</td>
<td>Community Partnerships</td>
<td></td>
</tr>
</tbody>
</table>
Management and Leadership
Select two of the following: 6

- AD LDSP 507 Introduction to Group Leadership
- AD LDSP 537 Leadership and Management of Volunteer Programs
- AD LDSP 581 Administration and Supervision in Early Childhood Programs
- AD LDSP 582 Operations Management in Early Childhood Programs
- BUS ADM 441 Diversity in Organizations
- BUS ADM 444 Human Resources Management
- COMMUN 310 Communication in Organizations
- COMMUN 323 Communication in Groups and Teams
- COMMUN 665 Introduction to Mediation
- ED POL 604 Marketing for Community-Based Organizations
- ED POL 608 Social Media and Technology for Community Engagement
- ED POL 609 Community Partnerships
- ED POL 625 Race Relations in Education
- PUB ADM 400 Ethics and Responsibility in Public Administration
- URBPLAN 350 Social Justice, Urban Planning and the New Multicultural America

Upper Division Electives
Select 9 credits of 300-level or higher courses from any school/college 4

Total Credits 96

3 Students may earn elective units through Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

4 Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

Competency Areas

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Community Perspectives on Human Resource Programs</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Resource Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Local Community Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Political/Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Personal Growth Competency</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Philosophies of Change</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Group Process Skills</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Leadership Issues</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Research Skills</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Change Strategies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Educational Advocacy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Administrative Skills</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social Problem Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Conflict Resolution</td>
<td>3</td>
</tr>
</tbody>
</table>

Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course, ED POL 100 Community Education I, during their first or second semester of study. PEE students have the opportunity to earn a maximum of 42 credits, which will only apply toward a Community Engagement and Education degree and only as lower-division electives. Students who leave the CEED program will not be able to use these credits in other programs.

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Honors in the School of Education
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Community Engagement Strategies, Undergraduate Certificate
This undergraduate certificate gives students an opportunity to gain a practical, historical and theoretical understanding of strategies for promoting social change through collective action. If you’re seeking an undergraduate degree at UWM, you’ll receive the certificate upon completion of your degree. If you already have an undergraduate degree, you’ll receive the certificate once you complete the program requirements. Students without a bachelor’s degree receive a certificate from the UWM School of Continuing Education after completing the program’s required coursework.

Outcomes
• Understand power relations
• Build coalitions
• Hold government officials accountable
• Work with the media

Careers
With a focus on urban issues, this certificate is excellent preparation for students who are interested in becoming community organizers, youth and social workers, politicians, community researchers, and nonprofit administrators. It’s also useful for students interested in specializing in other areas, such as international, environmental or union organizing.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Foundation</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Issue Area</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Capstone Internship/Seminar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>21</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Foundation Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Introductory Course</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>External Practical Training</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>**Historical Perspectives on Organizing, Inequality, and Social Change</td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following:

- AFRICOL 322 Order and Disorder: The Quest for Social Justice
- AFRICOL 344 Global Black Social Movements
- AFRICOL 411 Change in African-American Communities
- AFRICOL 414 The Black Woman in America, Africa, and the Caribbean
- ED POL 460 The Chicano Experience
- EXCEDUC 300 The Exceptional Individual
- HIST 267 The History of Latinos in the United States
- HIST 269 Asian Americans in Historical Perspective
- HIST 271 The 1960s in the United States: A Cultural History
- HIST 440 History of the American Working Classes
- HIST 446 African Americans Since the Civil War
- HIST 460 The History of Poverty in America
- HIST 468 The American Feminist Movement
- HIST 473 History of Wisconsin Indians
A second practical training may be approved in some cases by a student's advisor. Practical training must occur at time credits are taken and written permission must be included in student's file prior to enrollment.

Enrollment in this course involves participation in a community organizing training offered by a non-UWM organization approved by the Program Committee. Contact the Department of Educational Policy & Community Studies to obtain approval before attending any program or combination of programs.

**Issue Area Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Choose 3 credits from one area (practical or foundations) and 6 credits from the other</td>
<td>9</td>
</tr>
</tbody>
</table>

**Practical Issue Area**

**Leadership**

- AD LDSP 507: Introduction to Group Leadership
- AD LDSP 537: Leadership and Management of Volunteer Programs

**Communications/Public Relations/Applied Writing Skills**

- COMMUN 103: Public Speaking
- COMMUN 264: Persuasive Speaking
- COMMUN 350: Intercultural Communication
- COMMUN 363: Communication in Human Conflict
- COMMUN 464: Theory and Practice of Persuasion
- ENGLISH 214: Writing in the Professions:
- ENGLISH 435: Rhetoric and Professional Writing, Professional and Technical Communications
- JAMS 524: Advertising and Public Relations Campaigns

**Fundraising**

- ED POL 602: Proposal Writing and Fundraising Skills for Community-Based Organizations

**Evaluation/Applied Research Skills/Statistical Understanding**

- AFRICOL 220: Introduction to Statistics in Africology
- or MTHSTAT 465: Introductory Mathematical Statistics for Social Sciences and Education
- AFRICOL 301: Research Methods in Africology
- AD LDSP 647: Evaluation of Adult, Continuing, and Higher Education Programs
- ED POL 507: Action Research on Milwaukee Institutions
- POL SCI 392: Survey Research

**Organizational Change in Non-Profit Organizations**

- AD LDSP 607: Coordination of Staff Development and Training Program

**Organizing/Negotiating**

- COMMUN 665: Introduction to Mediation
- ED POL 411: Conflict and Change in Community-Based Organizations
- ED POL 611: Community Policies and Urban Minority Youths
- ED POL 688: Fieldwork in Multicultural Education
- URBPLAN 655: Negotiation Theory and Practice for Urban Planners

**Foundations Issue Area**

**Economics, Politics, and Urban Contexts in the United States**

- AFRICOL 228: Introduction to Black Political Economy
- AFRICOL 261: Survey of African-American Political Philosophy
- AFRICOL 341: Black Politics and City Government
- ANTHRO 431: Cities and Culture
- ECON 248: Economics of Discrimination
- ECON 353: Economic Development
- ED POL 113: The Milwaukee Community
- HIST 450: Growth of Metropolitan Milwaukee
- HIST 463: History of the American City
- POL SCI 105: State Politics
- POL SCI 213: Urban Government and Politics
- POL SCI 450: Urban Political Problems
- SOCIOL 377: Urbanism and Urbanization
- URBPLAN 141: Urban Planning Solutions to Contemporary Urban Problems
- URB STD 250: Exploring the Urban Environment

**Social Science Perspectives on Organizing, Inequality, and Social Change**

- AFRICOL 411: Change in African-American Communities
- AFRICOL 414: The Black Woman in America, Africa, and the Caribbean
- COMMUN 672: Communication and Social Order
- ED POL/SOCIOL 610: Reproduction of Minority Communities
- ED POL 625: Race Relations in Education
- EXCEDUC 300: The Exceptional Individual
- SOC WRK 206: Introduction to Social Welfare Policy
- SOC WRK 630: Families and Poverty
- SOCIOL 102: Solving Social Problems
- SOCIOL 233: Social Inequality in the United States
- SOCIOL 320: Social Change in American Indian Societies
- SOCIOL 323: Perspectives on Latino Communities
- SOCIOL 324: Comparative Race Relations
- SOCIOL 325: Social Change
- SOCIOL 333: Social Class in Industrial Society
- SOCIOL 338: Small Groups
- SOCIOL 343: Collective Behavior
- SOCIOL 450: Environmental Sociology

**Capstone Internship/Seminar in Community Organizing**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 442: Intermediate Community Education Practice</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

A second internship in addition to ED POL 442 may be approved in some cases by a student's advisor. Internships must occur at the time credits are taken and written permission must be included in student's file prior to enrollment. The Program Committee is the final arbiter with regard to the relevance of internship opportunities to the mission of the certificate.
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Student-Designed Issue Area Option

May replace up to 6 credits of either Practical or Foundations focus areas.

There are many courses at UWM not listed under the Practical and/or Foundations certificate focus areas that may be especially relevant to students with interest in a particular area of organizing. Therefore, with the written permission of the Program Coordinator, students with special interests may develop an issue area that may take the place of up to 6 credits of the Practical or Foundations areas.

Examples of possible student-designed issue areas might include:

- International Contexts and Organizing
- Organizing in Rural Settings
- Health Care Organizing
- Organizing around Issues of Sexuality and/or Sexual Orientation
- Contesting the Criminal Justice System
- Organizing around Disability Issues
- Pollution and Inequality

Courses for a student-designed focus area will only count towards the Community Engagement certificate if they are taken after a student is officially admitted to the program, and must be officially approved prior to enrollment. Students must show evidence that they cannot pursue their interest under the current constraints of the Practical and Foundations focus areas. A maximum of three credits of independent reading may be included in this student-designed focus if a relevant course or topic is not available at the University.

Community Engagement, Minor

With this minor, students can learn about local urban communities and how to improve them. This practical knowledge can provide a foundation for building a career in a variety of human services and community-based careers. The Community Engagement and Education minor is open to all undergraduate students, but should be of particular interest to majors in:

- Africology
- Anthropology
- Business
- Communication
- Education
- Philosophy
- Political Science
- Psychology
- Social Welfare
- Sociology

Requirements

Students may declare the minor after completing at least 45 credits, but prior to completing 75 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 112</td>
<td>Introduction to Community Education</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 114</td>
<td>Community Problems</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives</td>
<td>Select 12 credits of 300-level or higher ED POL courses</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Credits 18

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**Community Leadership, Undergraduate Certificate**

The Community Leadership Certificate provides students from any major with a way to explore leadership theory and identity in the community (including the campus community) and community-based institutions. The program will be based on a social justice model of leadership development, but will expose students to additional philosophies such as servant leadership and authentic leadership. Students will also gain practical experience by attending teambuilding activities such as ROPES courses, participating in community service, and doing a practicum in a leadership position, among other experiential learning activities.

**Requirements**

The certificate program consists of 16 credits, three of which will come from an experiential learning course, with activities specific to the student’s major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 315</td>
<td>Group Process and Civic Engagement</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 691</td>
<td>Leadership Ethics in Multicultural Organizations</td>
<td>1</td>
</tr>
</tbody>
</table>

**Leadership Practice**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 507</td>
<td>Introduction to Group Leadership</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 537</td>
<td>Leadership and Management of Volunteer Programs</td>
<td></td>
</tr>
</tbody>
</table>

**Social/Historical Foundations**

Select 3 credits from list of selected courses (see advisor or program sheet)

**Practical Elective**

Select 3 credits from list of selected courses (see advisor or program sheet)

**Leadership Capstone/Practicum**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 509</td>
<td>Fieldwork/Practicum in Education and the Community</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 630</td>
<td>Field Work in Schools, Agencies and Institutions</td>
<td></td>
</tr>
<tr>
<td>COMMUN 698</td>
<td>Internship in Communication</td>
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</tr>
<tr>
<td>NURS 403</td>
<td>Practice, Research and Leadership Role Development</td>
<td></td>
</tr>
<tr>
<td>WGS 489</td>
<td>Internship in Women’s and Gender Studies</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

16

1 Sites could include community health clinics (group facilitation or advocacy roles), campus organizations (campus ambassadors, peer health advocates, etc.), local non-profits (board positions), and others.

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- Investigate opportunities to prepare for the job you want.
• Keep a record of your academic progress.
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Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

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Living Learning Communities (LLC)
Living Learning Communities are for those interested in being part of a "community within a community" by living in residence halls among students with similar interests. Members of Living Learning Communities (http://uwm.edu/housing/communities/living-learning-communities) have access to special resources, programs and activities that will connect them with other students, instructors and life at the university. Among the many options is a Community Leadership LLC, which focuses on giving students the skills to succeed as active citizens and leaders in the community.

The Community Leadership option is open to freshmen and sophomores and requires enrollment in certain courses. Students who live in this LLC will only be 9 credits shy of completing the Community Leadership Certificate Program, making it a great add-on to one's major or minor. Certificate completion is noted on University transcripts.

Community-Based Organizations: Policy and Leadership, Undergraduate Certificate
This certificate program prepares students for mid-level positions in community-based organizations and provides a base for graduate work in non-profit management and other related areas. Students take coursework in foundations and policy, which provides an overview of the workings and role of CBOs, fundraising and marketing, and in leadership to provide knowledge in preparation for supervisory and management roles.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foundations and Policy</td>
<td></td>
</tr>
<tr>
<td>ED POL 601</td>
<td>Foundations of Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED POL 603</td>
<td>Community Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 605</td>
<td>Community-Based Organization Funding</td>
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</tr>
<tr>
<td>ED POL 610</td>
<td>Reproduction of Minority Communities</td>
<td></td>
</tr>
<tr>
<td>ED POL 630</td>
<td>Race and Public Policy in Urban America</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fundraising and Marketing</td>
<td></td>
</tr>
<tr>
<td>ED POL 602</td>
<td>Proposal Writing and Fundraising Skills for Community-Based Organizations</td>
<td>3</td>
</tr>
<tr>
<td>or ED POL 604</td>
<td>Marketing for Community-Based Organizations</td>
<td></td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED POL 582</td>
<td>Operations Management in Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 606</td>
<td>Quality Controls and Accountability for Community-Based Organizations</td>
<td></td>
</tr>
<tr>
<td>ED POL 608</td>
<td>Social Media and Technology for Community Engagement</td>
<td></td>
</tr>
<tr>
<td>ED POL 609</td>
<td>Community Partnerships</td>
<td></td>
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<tr>
<td>Choose one:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 537</td>
<td>Leadership and Management of Volunteer Programs</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 581</td>
<td>Administration and Supervision in Early Childhood Programs</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 617</td>
<td>Leadership in Youth-Serving Organizations</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Undergraduate Advising
Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting
• Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement).
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Cultural Foundations of Community Engagement and Education, MS

The Department of Educational Policy and Community Studies offers a master’s program for educators, community leaders, and those working in community-based organizations. Students deepen their knowledge base around issues relating to urban education and the contexts of urban communities. The program of study enhances participants’ ability to critically analyze education and processes of community change.

Our courses are offered in the evenings, online, and on weekends to serve working students. All in-department courses required for the degree are offered online, and students are able to complete all of their departmental courses online over a two year cycle as space permits.

A core of four courses provides a foundation in sociology, history, philosophy and research.

Students are encouraged to develop and understand their own frameworks of values and theoretical perspectives as applied to the realities of urban education and urban communities. A faculty advisor will assist the student through the program, balancing flexibility and structure according to professional needs. Common focus areas include the following:

• Alternative Education/At-Risk Students
• Child Care
• Community Organizing for Social Change

• Community Engagement and Partnerships
• Educational Policy
• Race Relations
• Urban Education
• Youth Work

Because our program is very flexible, allowing 6 credits of electives within the department as well as 9 credits that can be chosen from across the university, students often create their own unique informal focus areas, which have included: Latino Studies, Working-Class Studies, Educating Hmong Students, Global Education, Comparative Education, Race and the Police, Education and the Homeless, and more.

Students are encouraged to develop and understand their own values and theoretical perspectives as applied to the realities of urban education and community change. A faculty advisor will assist the student through the program, balancing flexibility and structure according to professional needs.

A wide variety of professionals seeking to understand the urban context of education and community change have found this program useful. Graduates work in a range of fields: directors of non-profit and community-based agencies; teachers and principals in public, private, and alternative schools; administrators of child care centers; directors of social action organizations; managers of programs serving youth; administrators in health service facilities; community organizers; elected government officials; police officers; administrators of group homes; doctoral students; professors; and more.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrat/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus the following departmental requirements to be considered for admission to the program:

1. Submission of two letters of recommendation from individuals who can testify to the applicant’s academic potential.
2. Written statement of educational and professional goals with desired area of concentration.

Credits and Courses

The program in Cultural Foundations of Community Engagement and Education requires a minimum of 30 graduate credits, divided among the following: required core courses (15); focus work (minimum 9 graduate credits), electives (minimum 6 graduate credits).

<table>
<thead>
<tr>
<th>Code</th>
<th>Core Courses</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 702</td>
<td>Cultural Foundations of Education Graduate Seminar</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ED POL 705</td>
<td>Sociology of Education and Community Engagement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ED POL 710</td>
<td>Research Methods for Education and Community Engagement</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Focus Work in Cultural Foundations

Select 9 credits in the Department of Educational Policy and Community Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 740</td>
<td>Modern Philosophies of Education and Community</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 750</td>
<td>History of Education in American Communities</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select a maximum of 6 graduate credits of electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits

30

Capstone Practicum Option

For the Capstone Practicum option, students take three credits of ED POL 791. Working with the instructor of this course, students conduct a project that relates to their core interests in the program and write a final paper related to their capstone project. This course is generally taken in the last or close to last semester of a student's program.

Each of these required courses has a set of major questions that guide the instructor and the students.

ED POL 702 must be taken in the first two semesters after a student enrolls in the program.

May be focused in the following areas:
- alternative education
- multicultural education
- peace education
- urban education
- educational policy

They will select this focus with the help of an advisor.

In order to individualize the program, a maximum of 6 graduate credits of electives is selected in consultation with the advisor to enhance the specific professional goals of the student. These credits may be selected from courses within the Department, courses in other departments in the School of Education, or courses outside of the School of Education. A maximum of 3 credits of Independent Reading and 3 credits of fieldwork may be included in the program.

Program Requirements

Major Professor as Advisor

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

Capstone Paper/Project or Thesis

All students in the Cultural Foundations of Community Engagement and Education program must complete either a capstone practicum, final paper, or thesis as part of their degree requirements. This choice should be made by the student in consultation with his/her advisor. Each option is completed under the direction of a faculty member.

Final Paper Option

The final paper option generally begins with a research paper written in one of the student's classes, and then this paper is brought to a more complete form with the support of a faculty advisor. This option is designed for students who are planning to go on to further graduate study, and provides an opportunity to generate a writing sample for applications as well as to hone one's research abilities. Students do not generally take extra credits to complete this option. Note that this is NOT a thesis, which is a much more intensive and formalized research effort.

Thesis Option

A thesis represents a much more substantial research project that is submitted formally to the Graduate School. Students pursuing the thesis option may take up to 6 credits of Ed Pol 990 Research or Thesis.

Exit Interview

Students completing any of the above options will also end with a final exit interview with two faculty members from the program.

Time Limit

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

Educational Policy, Graduate Certificate

The Graduate Certificate in Educational Policy prepares professionals to work in policy analysis as analysts, educational researchers, and policymakers in a range of levels, including local school districts, state agencies, nonprofit agencies, as support for elected officials, and the like.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

Applicants must have completed a bachelor's degree prior to admission, must have a minimum 2.75 cumulative undergraduate grade point average, and must declare their intent to pursue the certificate before completion of six credits in the certificate sequence. Applicants with a graduate degree must have a minimum 3.00 graduate grade point average.

Application

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

Credits and Courses

The Graduate Certificate in Educational Policy requires the completion of 15 credits of graduate work: 6 core credits, 3 credits of quantitative methods, and 6 credits of electives, chosen in collaboration with the program coordinator.
Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. To be eligible for transfer, the course must have been completed within the last 2 years. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

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

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

Youth Work, Undergraduate Certificate (School of Education, Department of Educational Policy and Community Studies)

The Youth Work Certificate is available to students in Social Work, Community Education and Engagement, Exceptional Education, and Educational Studies. It is ideal for students who want to learn more about adolescence and working with youth in a variety of settings, including large and small community based programs, group homes, foster care, and residential treatment centers. The focus is on youth who are troubled or at high risk, but much of the learning applies to youth in general and younger children as well.

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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL/SOC WRK 580</td>
<td>An Overview of Child/Youth Care</td>
<td>3</td>
</tr>
<tr>
<td>ED POL/SOC WRK 581</td>
<td>Youth Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 509</td>
<td>Fieldwork/Practicum in Education and the Community</td>
<td>2-3</td>
</tr>
</tbody>
</table>

1 Qualifying courses must include multiple linear regression.
Select 6 credits of courses focused on Human Development or Family Work

6

Total Credits

14-15

1 Fieldwork must relate to child and/or youth care.

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EDUCATIONAL PSYCHOLOGY

The Department of Educational Psychology offers undergraduate courses in human development and learning, measurement, research, evaluation and statistics, school psychology, school counseling, and community counseling. These courses are for students enrolled in teacher preparation programs in the School of Education and for interested students in other schools and colleges. Undergraduates may not major or minor in educational psychology.

Educational Psychology also offers a minor in Counseling to undergraduates from other majors, such as Psychology, Nursing, Criminal Justice, Communication, and other areas in which students are interested in developing counseling skills.

The Department of Educational Psychology prepares graduate students for a variety of clinical, research, and teaching professions at the master’s or doctoral level.

The Master of Science in Educational Psychology is designed to serve those who want to increase their understanding of human behavior from conception through adulthood, research and evaluation of learning, and teaching in informal and formal educational settings. The program permits concentrations in School Counseling, Community Counseling, School Psychology, Human Development and Learning, and Educational Statistics and Measurement. The Department also offers certification sequences to qualify students as school psychologists and school counselors.

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are Counseling Psychology, Learning and Development, Educational Statistics and Measurement, and School Psychology.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

Programs

- Children’s Mental Health for School Professionals, Graduate Certificate (p. 498)
- Counseling, Minor (p. 499)
- Educational Psychology, MS (p. 516)
- Educational Psychology, MS: Clinical Mental Health Counseling (p. 499)
- Educational Psychology, MS: Educational Statistics and Measurement (p. 501)
- Educational Psychology, MS: Learning and Development (p. 502)
- Educational Psychology, MS: School Counseling (p. 503)
- Educational Psychology, MS: School Psychology (p. 504)
- Educational Psychology, PhD (p. 516)
- Educational Psychology, PhD: School Psychology (p. 506)
- Educational Psychology, PhD: Counseling Psychology (p. 508)
- Educational Psychology, PhD: Educational Statistics and Measurement (p. 511)
- Educational Psychology, PhD: Learning and Development (p. 513)
- Multicultural Knowledge of Mental Health Practices, Graduate Certificate (p. 519)
- School Counseling, Graduate Certificate (p. 520)
- School Psychology, EdS (p. 521)
- Trauma Informed Care, Graduate Certificate (School of Education, Department of Educational Psychology) (p. 522)

Counseling Courses

COUNS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

COUNS 403 Overview of Counseling Skills
3 cr. Undergraduate.
An applied course which introduces students to the basic interpersonal skills required in the counseling process. Designed for students interested in counseling and related fields.
Prerequisites: jr st
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COUNS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

COUNS 579 Current Topics in Counseling:
1-3 cr. Undergraduate/Graduate.
Specific topic and prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: jr st
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

COUNS 600 Introduction to Clinical Mental Health Counseling
3 cr. Undergraduate/Graduate.
Survey of history of counseling; systems of counseling; credentialing in community counseling, counseling techniques; behavior modification and behavioral counseling; group processes in counseling.
Prerequisites: jr st.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

COUNS 602 Introduction to School Counseling
3 cr. Undergraduate/Graduate.
Survey of history of school counseling, counseling techniques, systems of counseling, group counseling in schools.
Prerequisites: jr st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
COUNS 701 Psychosocial Aspects of Disability in Rehabilitation Counseling
3 cr. Graduate.
Psychological adjustment to disabling conditions by clients and families; case management practices with non-physical disabilities; substance abuse among persons with disabilities.
Prerequisites: grad st; Couns 601 (C)
Current Offerings: http://uwm.edu/schedule

COUNS 702 Neuroscience and Medical Aspects of Counseling
3 cr. Graduate.
Neuroscience and medical practices related to emotional and behavioral conditions with emphasis on appropriate intervention strategies.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COUNS 703 Vocational Aspects in Rehabilitation and Exceptional Education
3 cr. Graduate.
Disability and case management practices for severely disabled persons. Emphasis on return to work interventions: vocational evaluation, work adjustment, job placement, accommodation, ergonomics.
Prerequisites: grad st; Couns 601 (C) or ExcEduc 679(P).
Course Rules: Jointly offered with & counts as repeat of ExcEduc 703.
Current Offerings: http://uwm.edu/schedule

COUNS 704 Multicultural Mental Health Guidelines and Ethics Overview
3 cr. Graduate.
Basic concepts in multicultural psychology and how they interact to shape the individual.
Prerequisites: grad st
Last Taught: Fall 2016, Fall 2015, Summer 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COUNS 705 Multicultural Practice: Awareness and Knowledge of Others
3 cr. Graduate.
Understanding and knowledge related to mental health practices of individuals from diverse cultural groups.
Prerequisites: grad st; Couns 704
Current Offerings: http://uwm.edu/schedule

COUNS 710 Counseling: Theory and Issues
3 cr. Graduate.
Counseling theories and issues, associated research, and application of theory to counseling practice.
Prerequisites: grad st; course in learning, human development &/or personality theory.
Current Offerings: http://uwm.edu/schedule

COUNS 711 Foundations in Career Development
3 cr. Graduate.
Educational, psychological, and sociological bases for career development; evolution of career development research; consideration and application of educational-occupational-social information through individual and group counseling approaches.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

COUNS 714 Essentials of Counseling Practice
3 cr. Graduate.
Experience and practice in basic counseling skills related to the helping process. Analysis of barriers and hazards in the counseling process.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COUNS 715 Multicultural Counseling
3 cr. Graduate.
Understanding the impact of culture on behavior and how to use that knowledge to increase effectiveness in counseling individuals from other cultures.
Prerequisites: grad st; Couns 714(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COUNS 740 Multicultural Mental Health Guidelines for Working with Latinos
3 cr. Graduate.
Information about the Hispanic/Latino population in the U.S. through concepts such as identity, acculturation, language, family values, religion, gender, and social class.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: http://uwm.edu/schedule

COUNS 741 Multicultural Mental Health Guidelines for Working with LGBT Individuals
3 cr. Graduate.
Essential multicultural mental health information as it pertains to the LGBT population in the U.S. Areas related to demographics, historical factors, sociopolitical issues and their influence on mental health.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: http://uwm.edu/schedule

COUNS 742 Multicultural Health Guidelines for Working with Asian Americans
3 cr. Graduate.
Understanding and knowledge related to mental health practices of individuals of Asian descent living in the U.S.; demographic, historical, and sociopolitical factors influencing mental health.
Prerequisites: grad st; Couns 704 & 705 (P)
Last Taught: Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

COUNS 743 Multicultural Mental Health Guidelines for Working with African Americans
3 cr. Graduate.
Multicultural mental health information as it pertains to African Americans in the U.S.; addresses demographics, historical factors, and sociopolitical issues and their impact on mental health.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: http://uwm.edu/schedule
COUNS 744 Multicultural Mental Health Guidelines, Working with First Nations Persons
3 cr. Graduate.
Pan-cultural information about the mental health issues facing the First Nations populations in North America.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: http://uwm.edu/schedule

COUNS 745 Multicultural Mental Health Guidelines for Working with Men
3 cr. Graduate.
Understanding how the traditionally socialized male gender role affects the lives of men and therapeutic techniques for working with men from a gender sensitive perspective.
Prerequisites: grad st; Couns 704 & 705 (P)
Current Offerings: http://uwm.edu/schedule

COUNS 751 Multicultural Considerations in Lifespan Psychopathology
3 cr. Graduate.
Etiology and pathogenesis of mental disorders as they occur throughout the lifespan, with special attention paid to the multicultural influences.
Prerequisites: grad st.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

COUNS 755 Counseling Pre-Practicum
3 cr. Graduate.
Introductory experience for Master's level counseling students, and is designed to meet the Wisconsin licensing requirement of 100 hours of supervised experience.
Prerequisites: grad st; Couns 710(P), Couns 714(P)
Course Rules: Counts as repeat of Couns 779 with same topic.
Current Offerings: http://uwm.edu/schedule

COUNS 764 Supervised Practicum 1 in School Counseling
3 cr. Graduate.
Practical, intensive and continuous experience in school settings that utilize counseling personnel.
Prerequisites: grad st; field placement; Couns 710(P) & 714(P); cons instr; competency requirement.
Course Rules: Retakable to 9 cr max. Sat/Unsat grade only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COUNS 765 Supervised Practicum 1 in Clinical Mental Health Counseling
3 cr. Graduate.
Practical, intensive, and continuous experience in community settings working with professional counseling personnel.
Prerequisites: grad st; field placement; Couns 710(P) & 714(P); cons instr; competency requirement.
Course Rules: Retakable to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COUNS 774 Trauma Counseling I: Theory and Research
3 cr. Graduate.
Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.
Prerequisites: grad st.
Course Rules: Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COUNS 775 Trauma Counseling II: Diagnosis and Treatment
3 cr. Graduate.
Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.
Prerequisites: grad st; Couns 774, Nurs 774, OccThpy 774 or Soc Wrk 774(P), or cons instr.
Course Rules: Couns 775, Nurs 775, OccThpy 775, and Soc Wrk 775 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COUNS 776 Supervised Practicum 1 in Rehabilitation Counseling
3 cr. Graduate.
Practical, intensive, and continuous experience in settings that utilize rehabilitation counseling personnel.
Prerequisites: grad st; field placement; Couns 710(P) & 714(P); cons instr; competency requirement.
Course Rules: Retakable to 9 cr max. Sat/Unsat grade only.
Current Offerings: http://uwm.edu/schedule

COUNS 777 Current Topics in Counseling:
1-3 cr. Graduate.
Specific topic and prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

COUNS 790 Research or Thesis
1-3 cr. Graduate.
For graduate students needing to complete master's paper.
Prerequisites: grad st (master's level in Couns/Rehab Couns); cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

COUNS 799 Independent Reading
1-3 cr. Graduate.
For the benefit of graduate students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule
COUNS 800 Group Counseling Theory
3 cr. Graduate.
Theories of groups, group counseling strategies, group structure, latent structural analysis, and educational methodologies.
**Prerequisites:** grad st; Couns 710 & 714.
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 803 Vocational Psychology
3 cr. Graduate.
Vocational theories and research; understanding of individual in relation to world of work; understanding of role of assessment in vocational counseling; multicultural vocational research and counseling.
**Prerequisites:** grad st; Ed Psy 720; Couns 711 or equiv; Couns 714
**Last Taught:** Spring 2018, Spring 2016, Spring 2014, Spring 2013.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 805 Consultation Strategies for Counselors and School Psychologists
3 cr. Graduate.
Analysis of consultation models; investigation of intervention strategies; and evaluation of the consultation process.
**Prerequisites:** 21 grad crs in Ed Psy &/or Couns.
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Fall 2015.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 807 Advanced Counseling Strategies:
1-3 cr. Graduate.
Variable content lecture-laboratory class. This course provides an in-depth view of counseling strategies based on the precepts of a particular theoretical model. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
**Prerequisites:** grad st; Couns 714
**Last Taught:** Spring 2017, Spring 2015, Spring 2001, Fall 2000.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 810 Counseling in the Schools
3 cr. Graduate.
Exploration of counseling functions in schools. The rationale, scope and nature of school counseling. Theories, techniques and principles of counseling process are emphasized.
**Prerequisites:** grad st; Couns 710 & 714.
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 812 Clinical Studies in Counseling
3 cr. Graduate.
Problem behaviors that clients bring to the counseling situation; stypical behaviors; techniques by which counselors deal with those behaviors. Emphasis on case material.
**Prerequisites:** grad st; Couns 710 & 714.
**Last Taught:** Fall 2017, Fall 2016, Summer 2016, Fall 2015.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 814 Professional, Ethical and Legal Issues in Counseling Psychology
3 cr. Graduate.
Examination of professional, legal and ethical issues affecting the practice of counseling psychology. Introduction to the scientist-practitioner model and the profession of counseling psychology.
**Prerequisites:** grad st; 21 crs in Couns or equiv.
**Last Taught:** Fall 2016, Fall 2015, Fall 2012, Summer 2005.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 815 Advanced Multicultural Counseling
3 cr. Graduate.
Multicultural counseling models and related strategies for professionals working in multicultural educational and community settings.
**Prerequisites:** grad st; Couns 714; Couns 715; Couns 774
**Last Taught:** Spring 2016, Spring 2013, Spring 1999, Fall 1997.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 816 Counseling Children and Adolescents
3 cr. Graduate.
This course will describe various counseling issues and strategies applicable to working with children and adolescents in both school and community settings.
**Prerequisites:** grad st.
**Last Taught:** Spring 2018, Spring 2017, Summer 2016, Spring 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 819 Group Assessment for Adults
3 cr. Graduate.
This course is designed to prepare students in adult group assessment. Students will become familiar with instruments used in personality, vocational, and interest assessment.
**Prerequisites:** grad st; Ed Psy 624; Ed Psy 720
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 820 Counseling Appraisal and Clinical Decision-Making
3 cr. Graduate.
Course will integrate science of psychology with counseling practice in order to promote development of advanced interviewing skills and intake reporting.
**Prerequisites:** grad st; Couns 710(P).
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 830 Proseminar 1: Introduction to Counseling Psychology; Multiculturalism
3 cr. Graduate.
Introduction to the profession; multicultural counseling and APA’s code of ethics covered in depth.
**Prerequisites:** grad st, cons instr
**Last Taught:** Fall 2011, Fall 2010, Fall 2009, Fall 2008.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 831 Proseminar 2: Psychotherapy Interventions
3 cr. Graduate.
Psychotherapy models and associated techniques.
**Prerequisites:** grad st; cons instr
**Last Taught:** Spring 2012, Spring 2010, Spring 2009, Spring 2008.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 840 Psychological Assessment
3 cr. Graduate.
Use of psychological assessment in counseling psychology practice.
**Prerequisites:** grad st; cons instr
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2013.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
COUNS 841 Proseminar 4: Vocational Psychology; Social Justice
3 cr. Graduate.
Advanced vocational psychology including career theory, career counseling, and social justice.
**Prerequisites:** grad st; cons instr
**Last Taught:** Spring 2011, Spring 2010, Spring 2009, Spring 2008.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 850 Proseminar 5: Supervision and Consultation
3 cr. Graduate.
Provides an introduction to and practice in supervision in counseling psychology.
**Prerequisites:** grad st; cons instr
**Last Taught:** Fall 2012, Fall 2011, Fall 2010, Fall 2009.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 860 Capstone—Research in Counseling Psychology
3 cr. Graduate.
Analysis of research trends; examination of critical issues; reports of student research projects.
**Prerequisites:** grad st; cons instr
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 868 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
**Prerequisites:** grad st.
**Course Rules:** Fee for 1 cr assessed.
**Last Taught:** Fall 2017, Summer 2017, Fall 2016, Summer 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 904 Family Systems Theory, Research, and Practice
3 cr. Graduate.
Introduction to systems theory, major approaches to family therapy, and the research on family systems concepts, in-session processes, and therapy outcomes.
**Prerequisites:** grad st; Couns 710(P).
**Last Taught:** Spring 2018, Summer 2017, Spring 2017, Summer 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 917 Supervision of Counseling
3 cr. Graduate.
An examination of research and strategies for the supervision of counseling; experience in the actual process of supervision.
**Prerequisites:** grad st; Couns 970
**Last Taught:** Fall 2017, Fall 2014, Fall 2013, Fall 1998.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 968 Supervised Practicum 2 in School Counseling
3 cr. Graduate.
Supervised practice in cooperating K-12 school settings.
**Prerequisites:** grad st; field placement; Couns 774(P); cons instr; Sat/Unsat grade only.
**Course Rules:** Retakable to 9 cr max.
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 970 Supervised Practicum 2 in Clinical Mental Health Counseling
3 cr. Graduate.
Practice in cooperating colleges, agencies, and other community settings.
**Prerequisites:** grad st; field placement; Couns 775(P); cons instr; competency req.
**Course Rules:** Retakable to 9 cr max.
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 971 Supervised Practicum in Group Counseling
3-9 cr. Graduate.
Controlled practicum in group counseling with cooperating schools, colleges and agencies.
**Prerequisites:** master's degree in Ed Psy; acceptance by Couns area; letter of recomm from agency or school
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 972 Internship in Counseling I
6 cr. Graduate.
Practical experience in a cooperating school involving counseling procedures. Supervised by qualified staff at the employing unit and by counselor education faculty. Seminar participation required.
**Prerequisites:** master's degree in Ed Psy with specialization in Couns & writ cons instr & agency.
**Last Taught:** Fall 2003, Fall 2002, Fall 2001, Fall 2000.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 974 Internship in Rehabilitation Counseling
3-6 cr. Graduate.
Supervised experience in a public or private rehabilitation agency. Stress on case management and counseling procedures with a variety of clients.
**Prerequisites:** admis to rehab couns concentration; writ cons instr & agency.
**Last Taught:** Fall 2007, Summer 2007, Spring 2007, Spring 2006.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 975 Doctoral Practicum in Counseling 3
3 cr. Graduate.
A supervised counseling experience with emphasis on the process and techniques of assessment, individual, and group counseling. Opportunity for consultation and feedback on counseling issues.
**Prerequisites:** grad st; field placement; admis to PhD prog in Urban Educ, cons instr.
**Course Rules:** Sat/Unsat grade only. Retakable to 9 cr max.
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

COUNS 976 Doctoral Practicum in Counseling 4
3 cr. Graduate.
A supervised counseling experience with a broad range of clients within a clinical setting. Opportunity for consultation and feedback on counseling issues, and experience at providing supervision of masters' level students.
**Prerequisites:** grad st; field placement; admis to PhD prog in Urban Educ; Couns 975(P); cons instr.
**Course Rules:** Retakable to 9 cr max. Sat/Unsat grade only.
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
COUNS 977 Advanced Doctoral Practicum in Counseling-5
3 cr. Graduate.
Advanced supervised training in specialized areas of counseling psychology: psychological assessment; individual, family, or group therapy; and consultation in outpatient, inpatient, or community mental health settings.
Prerequisites: grad st; field placement; admis to PhD program in Urban Ed; Couns 976(P); cons instr.
Course Rules: Retakable to 9 cr max. Sat/Unsat grade only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COUNS 977 Research or Thesis
1-3 cr. Graduate.
Prerequisites: grad st; cons major professor.
Current Offerings: http://uwm.edu/schedule

COUNS 977 Independent Reading
1-3 cr. Graduate.
For benefit of doctoral students unable to secure needed content in regular courses.
Prerequisites: doctoral st & cons instr.
Current Offerings: http://uwm.edu/schedule

Educational Psychology Courses

ED PSY 100 Learning Skills Laboratory
2 cr. Undergraduate.
Prerequisites: none. Not open to jr & sr st except as auditors.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED PSY 101 Foundations of Academic Success:
1-2 cr. Undergraduate.
A variable content course designed to increase retention through self-assessment, career exploration, decision-making, study skills, goal setting, and available resources at UWM.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to max of 3 cr.
Last Taught: Fall 2017, Fall 2016, Summer 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 104 Pathways to Success at UWM:
3 cr. Undergraduate.
Provides students with knowledge of and connection to campus resources, helping with study skills and time management in order to be successful at UWM.
Prerequisites: none.
Course Rules: May not be retaken for credit. Counts as repeat of Ed Psy 101 with same topic.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ED PSY 105 Motivation Strategies
3 cr. Undergraduate.
Enhances student success and retention and helps students create greater success in college and life. Strategies for creating academic, professional, and personal success.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ED PSY 110 Planning Your Major, Career
3 cr. Undergraduate.
Understanding the career planning process for making decisions about academic majors and careers.
Prerequisites: none.
Course Rules: Counts as repeat of Ed Psy 101 with same topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 212 Career Planning and Development for the Multicultural Workplace
3 cr. Undergraduate.
Understanding of and preparation for multicultural work environments; critical reflection on cultural identities, connecting personal history to social and historical forces, understanding bias and oppression.
Prerequisites: OWC-Part A.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

ED PSY 220 Positive Psychology Applied to Culture, Learning, & Development
3 cr. Undergraduate.
Introduction to topics related to happiness and positive aspects of the learning experience, positive psychological constructs that optimize learning.
Prerequisites: OWC Part A
General Education Requirements: OWCB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 277 Cross-Cultural Conversations
3 cr. Undergraduate.
Multicultural dialogue on issues of race, ethnicity, social class, gender, sexual orientation, and other aspects of identity and impacts on personal lives, communities, and society.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ED PSY 279 Current Topics in Educational Psychology:
1-3 cr. Undergraduate.
Specific topic announced in Schedule of Classes each time course is offered; any additional prerequisites are included in announcement.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

ED PSY 290 Individual Research
1-3 cr. Undergraduate.
Prerequisites: cons instr.
Current Offerings: http://uwm.edu/schedule
ED PSY 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

ED PSY 299 Independent Reading
1-3 cr. Undergraduate.
For benefit of undergraduate students unable to secure needed content in regular courses.
Prerequisites: cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 301 Successful Career Transitions: Ideas, Strategies, Accomplishments
2 cr. Undergraduate.
Help for students to clarify post graduation education or employment goals and successfully address employer/career research, resume development, employer targeting, networking and interview preparation.
Prerequisites: jr st.
Course Rules: Credit/No Credit only.
Current Offerings: http://uwm.edu/schedule

ED PSY 320 Principles of Classroom Appraisal and Evaluation
2-3 cr. Undergraduate.
Principles of evaluation with major emphasis upon nonstandardized and informal techniques of appraisal.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED PSY 325 Practice of Classroom Assessment
2-3 cr. Undergraduate.
Introduces the principles and practices of student-centered classroom assessment. Students gain an understanding of when and how to use a variety of assessment techniques.
Prerequisites: admis to School of Educ.
Course Rules: 1 cr counts as repeat of Ed Psy 326.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 330 Introduction to Learning and Development
3 cr. Undergraduate.
Principles and concepts of learning and development that contribute to the understanding and direction of school learning.
Prerequisites: soph st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ED PSY 505 Positive Psychology: Theory and Application in Learning Contexts
1-3 cr. Undergraduate/Graduate.
Introduction to positive psychology and its application in school and learning settings.
Prerequisites: jr st; grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

ED PSY 541 Assessment in Science and Math I
1 cr. Undergraduate/Graduate.
First of a three part assessment series for MACSTEP students.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'
Last Taught: Fall 2017, Fall 2016, Summer 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED PSY 542 Assessment in Science and Math II
1 cr. Undergraduate/Graduate.
Second in a three part assessment series for MACSTEP students.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED PSY 543 Assessment in Science and Math III
1 cr. Undergraduate/Graduate.
Third of a three part assessment series for MACSTEP students.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'
Current Offerings: http://uwm.edu/schedule

ED PSY 550 Social and Affective Issues in Urban Classrooms
3 cr. Undergraduate/Graduate.
Explore the social/emotional aspects of children's development as related to schooling and present a framework for creating conducive classroom learning environments.
Prerequisites: jr st; admis to School of Educ.
Current Offerings: http://uwm.edu/schedule

ED PSY 551 Social and Affective Issues: Case-Based Problem-Solving
1 cr. Undergraduate/Graduate.
Students will critique various strategies presented in Ed Psy 550 and engage in a problem-solving process focusing on social/emotional issues and classroom interventions.
Prerequisites: jr st; Ed Psy 550(P).
Current Offerings: http://uwm.edu/schedule

ED PSY 575 Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st or grad st.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ED PSY 579 Current Topics in Educational Psychology:
1-3 cr. Undergraduate/Graduate.
Specific topic and prerequisites announced in Schedule of Classes each
time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

ED PSY 613 Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment.
Experience administering specific individual and group (screening)
tests. Assessment of language, cognition, motor, adaptive behavior,
developmental delay.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 579. Jointly offered with and
counts as repeat of ExcEduc 613.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 624 Educational Statistical Methods I
3 cr. Undergraduate/Graduate.
Overview of common statistical techniques used in educational research,
including univariate and bivariate descriptive statistics, inferential
statistics, one-way analysis of variance, and linear regression.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 626 Workshop in the Computerized Analysis of Educational Data
1 cr. Undergraduate/Graduate.
Workshop in designing, implementing and interpreting the computer
analysis of survey, research or test-program type data using a popular
comprehensive statistical analysis package.
Prerequisites: jr st.
Last Taught: Summer 2011, Spring 2011, Fall 2010, Summer 2010.
Current Offerings: http://uwm.edu/schedule

ED PSY 631 Cognition: Learning, Problem Solving and Thinking
3 cr. Undergraduate/Graduate.
Overview of historical theories of learning and current theories of
cognition. Emphasis on application to instruction, school subjects,
workplace training, self-directed learning.
Prerequisites: jr st.
Last Taught: Spring 2017, Spring 2015, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ED PSY 637 The Psychology of Informal Learning Contexts
3 cr. Undergraduate/Graduate.
Overview of theory and research about how people learn in informal
contexts, i.e. after-school settings, online immersive environments,
science centers, museums and cultural institutions.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ED PSY 640 Human Development: Theory and Research
3 cr. Undergraduate/Graduate.
Survey of theory and research in human development from conception to
death, emphasizing the child and adolescent periods of growth.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ED PSY 710 Child and Adolescent Mental Health Issues in Schools
3 cr. Graduate.
Understanding of mental health disorders and treatment among children
and adolescents in school-based settings. Developmental and risk
factors associated with behavioral and emotional health problems.
Prerequisites:
Last Taught: Summer 2014.
Current Offerings: http://uwm.edu/schedule

ED PSY 711 Cultural Context of Children's Mental Health
3 cr. Graduate.
Influence of culture on the mental health of children; topography of
cultural difference in the US, culture-bound syndromes, influence of
cultural variables on mental health.
Prerequisites: grad st
Course Rules: Counts as repeat of Ed Psy 779 with same topic.
Last Taught: Spring 2015.
Current Offerings: http://uwm.edu/schedule

ED PSY 712 Mentally Healthy Classroom and School Environments
3 cr. Graduate.
Issues pertaining to socio-emotional learning in school settings;
techniques, leadership, & collaboration for fostering emotionally healthy
school environments.
Prerequisites: grad st
Last Taught: Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED PSY 713 Mental Health Needs in Urban Environments
3 cr. Graduate.
Introduction for educators to the unique context and characteristics of
urban environments, cultivation of understanding of factors that can
shape the mental health of developing children.
Prerequisites: grad st
Last Taught: Summer 2015.
Current Offerings: http://uwm.edu/schedule

ED PSY 720 Techniques of Educational and Psychological Measurement
3 cr. Graduate.
Overview of principles of measurement in educational and psychological
testing. Topics include test reliability, test validity, test bias, test score
interpretation, and standardized tests.
Prerequisites: grad st; Ed Psy 624(P)
Current Offerings: http://uwm.edu/schedule

ED PSY 724 Educational Statistical Methods II
4 cr. Graduate.
Applications of common statistical techniques used in educational
research, including two-way analysis of variance, multiple mean
comparisons, and multiple regression.
Prerequisites: grad st; Ed Psy 624(P)
Current Offerings: http://uwm.edu/schedule
ED PSY 725 Improving Teaching and Learning with Classroom-Based Assessments
3 cr. Graduate.
Development and implementation of classroom-based assessment instruments within existing large-scale state and district accountability systems.
Prerequisites: grad st.
Course Rules: Jointly offered w/ & counts as repeat of CurrIns 725.
Current Offerings: http://uwm.edu/schedule

ED PSY 728 Techniques of Educational Research
3 cr. Graduate.
Study of major design and analysis strategies used in educational research with emphasis upon the critique of existing studies and the planning of future studies.
Prerequisites: grad st & Ed Psy 624(P).
Current Offerings: http://uwm.edu/schedule

ED PSY 731 Cognition and the Design of Instruction
3 cr. Graduate.
Review of theories of human learning and cognition; emphasis on research on learning from text and the design of text and learning adjuncts.
Prerequisites: grad st; Ed Psy 631(P) or equiv.
Current Offerings: http://uwm.edu/schedule

ED PSY 732 Cognitive Behavioral Intervention Strategies in Education
3 cr. Graduate.
Theory and application of effective behavioral treatments for children with adjustment problems in school. Emphasis on principles and techniques of cognitive and multimodal behavioral therapy.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 733 Educational Applications of Social Psychology
3 cr. Graduate.
Implications of theory and research in socialization, attitude development and change, group processes, social perception and role behavior for classroom practices and teacher-student interaction.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ED PSY 734 Contextual Determinants of Motivation
3 cr. Graduate.
Review of research concerning the effects of teacher expectations, school and classroom climate, and psycho-social variables on student motivation. Focus on problem-solving.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ED PSY 735 Social Cognition in Educational Psychology
3 cr. Graduate.
Theory and research on basic cognitive elements and processes used in understanding the self and others with emphasis on applications in educational and counseling settings.
Prerequisites: grad st; Ed Psy 631(P) or 640(P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED PSY 741 Cognitive Development
3 cr. Graduate.
Examination of theory and research in cognitive development and applications to developmental assessment and instruction.
Prerequisites: grad st; Ed Psy 640(P) or equiv or cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 742 Personality Theories and the Educational Process
3 cr. Graduate.
A study of the major theories of personality growth and development. An emphasis upon the application of the theories to the educational process.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ED PSY 743 Human Development: Study of Infancy and Early Childhood
3 cr. Graduate.
Study of physical, intellectual, social and emotional development from birth to six years.
Prerequisites: grad st, Ed Psy 640(P) or cons instr.
Last Taught: Fall 2012, Fall 2011, Fall 2010, Summer 2009.
Current Offerings: http://uwm.edu/schedule

ED PSY 745 Human Development: Study of Middle Childhood
3 cr. Graduate.
Study of the physical, intellectual, social, and emotional development of children from 6-12 years of age.
Prerequisites: grad st & Ed Psy 640(P) or equiv or cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 746 Human Development: Study of the Adolescent
3 cr. Graduate.
Study of physical, intellectual, social and emotional development during adolescents.
Prerequisites: grad st; Ed Psy 640(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 747 Human Development: Study of the Adult
3 cr. Graduate.
Physical, social, affective and cognitive development which characterizes the period from young adulthood through aging.
Prerequisites: grad st & Ed Psy 640(P) or equiv or cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 748 Oral Language, Cognition, and Literacy
3 cr. Graduate.
Psychological and linguistic bases of speaking, reading, and writing in children and adults from diverse populations. Importance of language and cognition for literacy development.
Prerequisites: grad st; college-level course in language acquisition or reading or child development or linguistics or cons instr.
Course Rules: Ed Psy 748 & Linguis 748 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule
ED PSY 751 Professional and Historical Issues in School Psychology
3 cr. Graduate.
Introduction to the practice of psychology in the schools. This course includes the history and systems of psychology, and professional practice issues.
Prerequisites: grad st.
Last Taught: Fall 2017, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED PSY 752 Developmental Psychopathology
3 cr. Graduate.
Study of characteristics, definitions, developmental course, correlates, causes, contexts, and outcomes of psychopathology in children and adolescents. Explores interventions within a developmental systems perspective.
Prerequisites: Ed Psy 755 or Couns 710 or equiv.
Current Offerings: http://uwm.edu/schedule

ED PSY 755 Assessment and Intervention: School Age
3 cr. Graduate.
Introduction to school psychology practices in assessment and intervention for school age students. Includes didactic and clinical experiences.
Prerequisites: grad st; Ed Psy 720; cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED PSY 756 Assessment and Intervention: Early Childhood
3 cr. Graduate.
Introduction to school psychology practices in assessment and intervention for early childhood children and families. Didactic and clinical experiences are included.
Prerequisites: grad st; Ed Psy 755; cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 760 Academic Intervention and Alternative Assessment
3 cr. Graduate.
Reviews and critiques major educational reforms in regular and exceptional education. Alternative assessment paradigms, context variables in classrooms, teacher-child interactions, and change strategies are examined.
Prerequisites: grad st.; Ed Psy 755 (P)
Current Offerings: http://uwm.edu/schedule

ED PSY 779 Current Topics in Educational Psychology
1-3 cr. Graduate.
Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st.
Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Summer 2017, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ED PSY 790 Research or Thesis
1-3 cr. Graduate.
Master's level course.
Prerequisites: grad st & cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 799 Independent Reading
1-3 cr. Graduate.
For benefit of superior graduate students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 801 Urban Education: Doctoral Seminar in Educational Psychology
3 cr. Graduate.
Overview of theory and research in educational psychology with emphasis on problems and issues in urban settings.
Prerequisites: grad st admis to urban educ doctoral prog; Educ 701.
Current Offerings: http://uwm.edu/schedule

ED PSY 814 Cognition and Emotion: The Affective Components of Human Thought
3 cr. Graduate.
Intersection of cognition and emotion with particular focus on affective processes.
Prerequisites: grad st.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

ED PSY 820 Multiple Regression
3 cr. Graduate.
Basic and advanced topics in linear regression analysis, including prediction, mediation and moderation effects, curvilinear relationship, categorical predictors, and other general linear models like ANCOVA.
Prerequisites: grad st; Ed Psy 724(P) or cons instr.
Last Taught: Fall 2017, Spring 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ED PSY 821 Psychometric Theory and Practice
3 cr. Graduate.
Advanced topics in psychometrics, covering classical test theory, generalizability theory, and item response theory, test bias, item analysis, and test equating and linking.
Prerequisites: grad st; Ed Psy 724(P) or equiv; Ed Psy 720(P) or equiv.
Last Taught: Fall 2016, Fall 2014, Fall 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ED PSY 822 Item Response Theory
3 cr. Graduate.
A survey of IRT models and their applications in measurement issues, such as latent trait estimation, model fit, differential item functioning, and computerized adaptive testing.
Prerequisites: grad st; Ed Psy 724(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 823 Structural Equation Modeling
3 cr. Graduate.
Study of applied structural equation modeling including path analysis, confirmatory factor analysis and other latent variable models; exposure to computer programs used for model analysis.
Prerequisites: grad st; Ed Psy 825 (P) or 820 (P) or equiv; cons instr.
Current Offerings: http://uwm.edu/schedule
ED PSY 824 Advanced Experimental Design and Analysis
3 cr. Graduate.
Advanced topics in the design and statistical analysis of experiments applied to educational research, including n-way analysis of variance and repeated measures analysis of variance. Prereq: grad st; Ed Psy 724(P) or equiv
Prerequisites:

ED PSY 825 Multivariate Methods
3 cr. Graduate.
Multivariate analysis methods such as MANOVA, discriminant analysis, factor analysis, and principal components analysis, and their applications in the social sciences.
Prerequisites: grad st; Ed Psy 724(P).
Last Taught: Spring 2018, Fall 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

ED PSY 826 Analysis of Cross-Classified Categorical Data
3 cr. Graduate.
Use of methods that include chi-square, log linear, and logistic regression models to analyze cross-classified categorical data with applications in the social sciences.
Prerequisites: grad st; Ed Psy 724(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ED PSY 827 Survey Research Methods in Education
3 cr. Graduate.
Advanced topics in survey design, administration, and analysis. Topics include sampling designs, data collection mode, measurement error, and small- and large-scale survey data analysis techniques.
Prerequisites: grad st; Ed Psy 724(P).
Current Offerings: http://uwm.edu/schedule

ED PSY 828 Program Evaluation in Education
3 cr. Graduate.
An examination of the issues related to educational program evaluation; application of statistical and measurement methods to evaluation strategies and designs.
Prerequisites: grad st; Ed Psy 724(P).
Current Offerings: http://uwm.edu/schedule

ED PSY 829 Instrument Development
3 cr. Graduate.
Students will develop an instrument to measure some psychological construct of research interest. Topics include construct development, test and item specifications, item writing, conducting reliability and validity studies.
Prerequisites: grad st; Ed Psy 724(P).
Last Taught: Fall 2011, Fall 2009, Fall 2007, Fall 2005.
Current Offerings: http://uwm.edu/schedule

ED PSY 831 Cognition: Theory and Research
3 cr. Graduate.
A detailed look at cognitive theory and research underlying learning and instruction. Aimed at students who expect to use some aspect of cognitive theory in their research.
Prerequisites: grad st; Ed Psy 631(P), 731(P) or course in human verbal learning.
Current Offerings: http://uwm.edu/schedule

ED PSY 832 Theory of Hierarchical Linear Modeling
3 cr. Graduate.
Theories and applications of the statistical techniques for analyzing multilevel data in which individuals are nested within clusters or repeated measures are nested within individuals.
Prerequisites: grad st; Ed Psy 820(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 833 Social Psychology of Group Differences: Race and Ethnicity
3 cr. Graduate.
Social psychological research and theory concerning race, ethnicity and racial and ethnic relations in American society with applications to a variety of educational situations.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ED PSY 834 The Psychology of Achievement Motivation
3 cr. Graduate.
Review of research on personality factors that influence achievement motivation. Designed for those interested in incorporating aspects of motivation theory into their research.
Prerequisites: grad st; Ed Psy 734(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 838 Research Practicum in Educational Psychology
3 cr. Graduate.
Supervised research practicum, strategies for dissertation writing process and presentation.
Prerequisites: grad st.
Course Rules: Retakable to 12 cr max.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

ED PSY 840 Theory and Issues in Human Development
3 cr. Graduate.
Study of theory, experimental design, and research in human development.
Prerequisites: grad st; Ed Psy 640(P).
Current Offerings: http://uwm.edu/schedule

ED PSY 844 The Multicultural Family
3 cr. Graduate.
Course examines theory and research for studying development in the family context as it applies to ethnic minority groups in the u.s.
Prerequisites: grad st; Ed Psy 640(P).
Last Taught: Spring 2017, Spring 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule
ED PSY 845 Immigrant Child in Developmental Perspective  
3 cr. Graduate.  
Examines immigrant children and families from a developmental perspective. Focus on current issues in theory and research on the study of immigrant children.  
Prerequisites: grad st; Ed Psy 640 (P)  
Last Taught: Fall 2016, Fall 2014, Spring 2013, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

ED PSY 850 Objective Personality Assessment  
3 cr. Graduate.  
Objective diagnostic techniques used in the personality assessment of school-age populations.  
Prerequisites: grad st, Ed Psy 755 & 756. Course in behavior disorders of children or in abnormal psychology recom.  
Current Offerings: http://uwm.edu/schedule

ED PSY 851 Assessment and Interventions: Personality, Social and Emotional Functioning  
3 cr. Graduate.  
Introduction to school psychology practices of assessment and interventions for psychological, social, and emotional functioning of children and adolescents. Didactic and clinical experiences included.  
Prerequisites: Ed Psy 742 & 752; writ cons instr.  
Current Offerings: http://uwm.edu/schedule

ED PSY 852 Social, Psychological, and Biological Basis of Learning Disorders  
3 cr. Graduate.  
Current assessment and intervention in the approaches to learning and emotional difficulties. Includes social, psychological, cultural, educational, and biological factors affecting children and adolescents.  
Prerequisites: grad st; Ed Psy 751 or Couns 710 or equiv.  
Current Offerings: http://uwm.edu/schedule

ED PSY 853 Biological Basis of Childhood Disorders  
3 cr. Graduate.  
Current theory, research, and clinical findings in the biological basis of childhood disorders. Neurodevelopmental assessment and implications for intervention with cognitive behavioral, and psychosocial disorders.  
Prerequisites: grad st; Ed Psy 755 or cons instr.  
Current Offerings: http://uwm.edu/schedule

ED PSY 879 Current Topics in Educational Psychology  
1-3 cr. Graduate.  
Specific topic announced in schedule of classes each time course is offered; any additional prerequisites are included in announcement.  
Prerequisites: grad st.  
Course Rules: May be repeated with change in topic to max of 9 cr.  
Last Taught: Fall 1991.  
Current Offerings: http://uwm.edu/schedule

ED PSY 880 Proseminar in Urban Education: Educational Psychology  
2 cr. Graduate.  
An examination of selected problems and issues in urban education.  
Prerequisites: grad st; admis to urban educ doctoral prog.  
Current Offerings: http://uwm.edu/schedule

ED PSY 888 Candidate for Degree  
0 cr. Graduate.  
Available for graduate students who must meet minimum credit load requirement.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

ED PSY 922 Seminar in Measurement and Evaluation  
3 cr. Graduate.  
Specific topic and any additional prerequisites are announced in timetable each time course is offered.  
Prerequisites: grad st & cons instr.  
Course Rules: May be repeated with change in topic to max of 9 cr.  
Current Offerings: http://uwm.edu/schedule

ED PSY 929 Seminar in Statistics and Research Design  
3 cr. Graduate.  
Specific topic and any prerequisites announced in schedule of classes each time course is offered.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated with change in topic to max of 9 cr.  
Current Offerings: http://uwm.edu/schedule

ED PSY 939 Seminar in Human Learning  
3 cr. Graduate.  
Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated with change in topic to max of 9 cr.  
Last Taught: Spring 1990.  
Current Offerings: http://uwm.edu/schedule

ED PSY 949 Seminar in Human Development  
3 cr. Graduate.  
Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.  
Prerequisites: grad st; cons instr.  
Course Rules: May be repeated with change in topic to max of 9 cr.  
Current Offerings: http://uwm.edu/schedule

ED PSY 952 Pediatric Psychology in Urban Settings  
3 cr. Graduate.  
Theory, research and clinical practice addressing the mental health needs of children in urban settings. Risk and protective factors are explored within a resiliency framework.  
Prerequisites: Ed Psy 752(R), Ed Psy 755(R) or cons instr.  
Current Offerings: http://uwm.edu/schedule

ED PSY 955 Advanced Therapeutic Interventions  
3 cr. Graduate.  
Develop theoretical understanding and competencies related to advance-level prevention and intervention work, including group prevention and intervention and family intervention.  
Prerequisites: grad st, writ cons instr, Ed Psy 732 or equiv.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.  
Current Offerings: http://uwm.edu/schedule

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ED PSY 959 Seminar in School Psychology
3 cr. Graduate.
Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

ED PSY 960 Evidence-Based Practices in School Psychology: Prevention & Intervention
3 cr. Graduate.
Evidence-based practices for school psychologists and other professionals working in school and clinic settings.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ED PSY 974 Beginning Practicum in School Psychology
1-3 cr. Graduate.
Supervised practice in schools, clinics or institutions. Practical experience in administration and interpretation of psychological tests, preparation of case reports and staffing of cases under supervision.
Prerequisites: grad st; enrollment in School Psych prog; cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ED PSY 975 Advanced Practicum in School Psychology
3-9 cr. Graduate.
Advanced psycho-diagnostic practice in schools, clinics or institutions under supervision of a psychologist.
Prerequisites: grad st; Ed Psy 974; writ cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 976 MS Internship in School Psychology
1-6 cr. Graduate.
Provides opportunity for masters students to acquire advanced clinical skills in consultation, interventions, and psychological assessment. Supervised experiences in schools.
Prerequisites: grad st; completion of all course requirements for School Psychology certification; writ cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 977 Advanced Practicum in Intervention and Supervision
1-3 cr. Graduate.
Training in the design, implementation, evaluation, and supervision of therapeutic or academic assessments and interventions.
Prerequisites: grad st; Ed Psy 732 or equiv.
Course Rules: Sat/Unsat grade only. Retakable to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 986 Doctoral Internship in School Psychology
3-6 cr. Graduate.
Provides opportunity for doctoral students to acquire advanced clinical skills in consultation, intervention, and assessment practices. Supervised experiences in school, mental health, and medical setting.
Prerequisites: grad st; writ cons instr; admis to Urban Educ doctoral prog & identification of specific specialization.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

ED PSY 990 Research or Thesis
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

ED PSY 999 Independent Reading
1-3 cr. Graduate.
For doctoral students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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</thead>
<tbody>
<tr>
<td>Razia Azen</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Toronto</td>
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<tr>
<td>Thomas Baskin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Adrian Chan</td>
<td>Professor</td>
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<tr>
<td>Roberta Corrigan</td>
<td>Professor</td>
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<tr>
<td>Jerry Davis</td>
<td>Professor</td>
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<tr>
<td>Anne Ellison</td>
<td>Professor</td>
<td>EdD</td>
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<tr>
<td>Nadya Fouad</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
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<tr>
<td>Gerald Gleason</td>
<td>Professor</td>
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<tr>
<td>Anthony Hains</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Notre Dame</td>
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<tr>
<td>David Klingbeil</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
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<tr>
<td>Kyongboon Kwon</td>
<td>Associate Professor</td>
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<td>University of Georgia</td>
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<tr>
<td>Susie Lamborn</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Denver</td>
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<tr>
<td>Christopher Lawson</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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</tbody>
</table>
As of Spring 2017, the Children’s Mental Health for School Professionals certificate has suspended admission. This means that unless you have been accepted into this certificate program prior to Spring 2017, you will not be able to earn the certificate. The following information is provided solely for the benefit of students accepted into the Children’s Mental Health for School Professionals certificate prior to Spring 2017.

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
- Post baccalaureate: Minimum 2.75 undergraduate GPA, submit undergraduate transcripts and letter of intent.
- Current graduate students: minimum 3.0 cumulative GPA; submit current transcript and letter of intent.
- Post graduate: submit graduate transcript and letter of intent.

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

**Credits and Courses**
15 graduate credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ED PSY 710</td>
<td>Child and Adolescent Mental Health Issues in Schools</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 711</td>
<td>Cultural Context of Children's Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 712</td>
<td>Mentally Healthy Classroom and School Environments</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 713</td>
<td>Mental Health Needs in Urban Environments</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 805</td>
<td>Consultation Strategies for Counselors and School Psychologists (or approved alternative)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 15

The certificate is conferred on completion of all courses with a grade of B or better.

**Certificate Requirements**

**Transfer Credit**
No credits may be taken at an institution other than UWM.

**Grade Point Average Requirement**
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.
Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Counseling, Minor**
Counseling is an essential component across disciplines in psychology, education, social work, and related health professions. The foundational body of knowledge and development of introductory skills in the field of counseling are applicable to students pursuing these professions. A counseling minor would enable individuals to empower diverse individuals, families, and groups to accomplish mental health, wellness, education, and career goals and overcome personal challenges and obstacles in a variety of settings.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>Minor Requirements</td>
<td>18</td>
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<tr>
<td>At least 9 credits must be at the 300 level or above</td>
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<td>Total Credits</td>
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**Minor Requirements**

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<th>Credits</th>
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<tr>
<td>ED PSY 212</td>
<td>Career Planning and Development for the Multicultural Workplace</td>
<td>3</td>
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<tr>
<td>ED PSY 220</td>
<td>Positive Psychology Applied to Culture, Learning, &amp; Development</td>
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<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
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<td>or COMMUN 402</td>
<td>Gender and Communication</td>
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<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
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<tr>
<td>or ED PSY 640</td>
<td>Human Development: Theory and Research</td>
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<tr>
<td>COUNS 403</td>
<td>Overview of Counseling Skills</td>
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<td>COUNS 600</td>
<td>Introduction to Clinical Mental Health Counseling</td>
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<tr>
<td>Total Credits</td>
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</table>

**Completion**
- 18 credits. at least 9 at the 300 level and above;
- Minimum GPA of 2.5 on all credits in the minor, including UWM and transfer credits

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**Scheduling an Appointment**
Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

**Walk-In Hours**
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

**Graduate Advising**
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

**Educational Psychology, MS: Clinical Mental Health Counseling**

The counseling program in the Department of Educational Psychology offers two distinct concentration areas:
- Clinical Mental Health Counseling
- School Counseling

Given UWM’s location in the largest urban area in Wisconsin, the counseling faculty is committed to training multicultrually competent community counselors and school counselors to serve clients in urban environments. Both concentrations share a core preparation in the areas of counseling and educational psychology. As students make progress in their program of studies, their focus will take on a more specialized
training with content specific courses and field placements where they will refine their counseling skills in practical settings.

The concentrations train counselors to work with a diverse group of clients in urban settings and to deliver services in an ethical manner, as outlined by professional codes of conduct. They share in common courses comprising an Educational Psychology core of studies, a general Counseling core of studies, and a Concentration core. The Educational Psychology core provides knowledge for understanding research and professional scholarship, techniques of educational and psychological measurement, and typical human growth and development across the life-span. The Counseling core courses provide training in basic helping processes and relationships, career development, social and diversity issues in counseling, group work, appraisal of client issues, counseling theory, and the role of family systems. The Concentration core provides training in advanced strategies for helping clients change, and opportunities for increasing competency with specific populations through field placement. Fieldwork in Counseling and Supervised Practicum in Counseling involve the refinement of more advanced and sophisticated counseling skills in placements in actual counseling settings.

Students are required to spend 20 hours each week during the semester at their placement site (an exception to this hour requirement is described below for students interested in seeking experience in dual concentrations).

The Clinical Mental Health Counseling concentration prepares students for work in a variety of community settings such as mental health clinics, community agencies, counseling centers, colleges and universities, and business and industry. Students arrange their program of studies in consultation with their advisors so that the 48 credits earned toward a master's degree will meet selected state certification requirements.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uw.m.edu/registrar/contact-us) online.

**Application**

Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for department-specific application requirements.

**Admission**

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

**Admission - Clinical Mental Health Counseling Concentration**

The Clinical Mental Health Counseling concentration prepares students for work in a variety of community settings such as mental health clinics, community agencies, counseling centers, colleges and universities, and business and industry. Students arrange their program of studies in consultation with their advisors so that the 60 credits earned toward a master's degree will meet selected state certification requirements.

Admission to the master's concentrations in counseling takes place in the fall. The Department of Educational Psychology deadline for receipt of completed applications is February 15.

If you are interested in applying to one of the master's concentrations in counseling, please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for more information. A student handbook containing detailed information on each program is available online; it can be accessed by clicking on the specific program of interest in the left-hand navigation bar. For further questions not addressed on the website, contact the Department of Educational Psychology at edpsydept@uwm.edu.

Students who seek admission to the Clinical Mental Health or School Counseling concentrations within the counseling area must apply through the Graduate School (https://graduateschool-apply.uwm.edu) for admission to the Department of Educational Psychology. Please note that Graduate School deadlines are earlier because they receive, evaluate, and send completed graduate school applications to the Department. Upon admission, the student is assigned to a faculty member of the Department of Educational Psychology-Counseling Area who shall serve as the student's advisor.

The Counseling Area follows the admissions requirements of the Graduate School and the Department of Educational Psychology.

- 48 credits are required for the School Counseling concentration.
- 60 credits are required for the Clinical Mental Health Counseling concentration.

**Credits and Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
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</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
<td>3</td>
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**Counseling Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COUNS 710</td>
<td>Counseling: Theory and Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 711</td>
<td>Foundations in Career Development</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 714</td>
<td>Essentials of Counseling Practice</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 800</td>
<td>Group Counseling Theory</td>
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</tr>
<tr>
<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
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</table>

**Clinical Mental Health Counseling**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 600</td>
<td>Introduction to Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>
COUNS 702  Neuroscience and Medical Aspects of Counseling  3
COUNS 755  Counseling Pre-Practicum  3
COUNS 751  Multicultural Considerations in Lifespan Psychopathology  3
COUNS 765  Supervised Practicum 1 in Clinical Mental Health Counseling  3
COUNS 812  Clinical Studies in Counseling  3
COUNS 820  Counseling Appraisal and Clinical Decision-Making  3
COUNS 970  Supervised Practicum 2 in Clinical Mental Health Counseling  3

Psychopathology
SOC WRK 791  Current Topics in Social Work:  3

Electives
Select 3 elective credits  3

Total Credits  60

In addition to the courses listed above, students must complete a comprehensive examination, a master’s paper, or a thesis (no more than three thesis credits to apply towards the degree).

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

Thesis
Optional. Up to 6 degree credits may be awarded for thesis research.

Comprehensive Examination
The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

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

Educational Psychology, MS: Educational Statistics and Measurement
Student learning is measured more than ever before, and that means that the education field needs professionals who have expertise in educational statistics and measurement.

You’ll find our graduates working in universities, state and federal agencies, test publishing organizations, school systems, state departments of education, marketing research companies and research centers, among other settings.

The Educational Statistics and Measurement concentration is designed to provide students with the knowledge necessary to execute research and evaluate and critique existing research. Course work exposes students to the general principles of inferential statistics, research methodology and experimental design, psychometrics, and categorical and qualitative research methods.

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for department-specific application requirements.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program
1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Admission - Educational Statistics and Measurement Concentration
The Educational Statistics and Measurement concentration is designed to provide students with the knowledge necessary to execute research and evaluate and critique existing research. Course work exposes students to the general principles of inferential statistics, research methodology and experimental design, psychometrics, and categorical and qualitative research methods.

Credits and Courses
Students are required to complete 30 credits for the master's degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
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</tr>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
<td>3</td>
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<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td>4</td>
</tr>
<tr>
<td>ED PSY 728</td>
<td>Techniques of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>Learning and Development</td>
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</tr>
<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
<td></td>
</tr>
<tr>
<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
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</tr>
<tr>
<td>ED PSY 742</td>
<td>Personality Theories and the Educational Process</td>
<td></td>
</tr>
<tr>
<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
<td></td>
</tr>
<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
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</tbody>
</table>
Educational Psychology, MS: Learning and Development

The Learning and Development concentration provides students with a broad understanding of the psychological foundations of education. The program emphasizes the perspective of the learner and concentrates on the following content areas: cognition, development, and social. The program focuses on research skills as they apply to education and training, throughout the lifespan, in a broad range of settings.

Electives (11 credits)

6 credits must be from the following Educational Statistics and Measurement courses:

- ED PSY 823: Structural Equation Modeling (3 credits)
- ED PSY 824: Advanced Experimental Design and Analysis (3 credits)
- ED PSY 825: Multivariate Methods (3 credits)
- ED PSY 827: Survey Research Methods in Education (3 credits)
- ED PSY 828: Program Evaluation in Education (3 credits)
- ED PSY 829: Instrument Development (3 credits)
- ED PSY 922: Seminar in Measurement and Evaluation (3 credits)
- ED PSY 929: Seminar in Statistics and Research Design (3 credits)

Students' programs of study are developed in consultation with their assigned advisor.

Program Requirements

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

Thesis
Optional. Up to 6 degree credits may be awarded for thesis research.

Comprehensive Examination
The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

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

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for department-specific application requirements.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Admission - Learning and Development concentration
The Learning and Development concentration provides students with the psychological foundations of education. The program emphasizes the perspective of the learner and concentrates on the following content areas: cognition, development, and social. The program focuses on research skills as they apply to education and training, throughout the lifespan, in a broad range of settings.

Credits and Courses

Students are required to complete 30 credits for the master's degree. Students complete 9 credits of core courses, 15 credits of a concentration, and 6 elective credits. Students’ programs of studies are developed in consultation with their assigned advisor.

<table>
<thead>
<tr>
<th>Code</th>
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<td>ED PSY 624</td>
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<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
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<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
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Required Courses (15 graduate credits)

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<th>Code</th>
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<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
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<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
<td></td>
</tr>
</tbody>
</table>

Graduates of the MS program go on to pursue a PhD (often in Educational Psychology or a related field) or find jobs in education and/or research settings in the private or public sectors. Many graduates of our PhD program pursue careers at research institutes and universities.
Program Requirements

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

Thesis
Optional. Up to 6 degree credits may be awarded for thesis research.

Comprehensive Examination
The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

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

Educational Psychology, MS: School Counseling

The counseling program in the Department of Educational Psychology offers two distinct concentration areas:

- Clinical Mental Health Counseling
- School Counseling

Given UWM's location in the largest urban area in Wisconsin, the counseling faculty is committed to training multiculturally competent community counselors and school counselors to serve clients in urban environments. Both concentrations share a core preparation in the areas of counseling and educational psychology. As students make progress in their program of studies, their focus will take on a more specialized training with content specific courses and field placements where they will refine their counseling skills in practical settings.

The concentrations train counselors to work with a diverse group of clients in urban settings and to deliver services in an ethical manner, as outlined by professional codes of conduct. They share in common courses comprising an Educational Psychology core of studies, a general Counseling core of studies, and a Concentration core. The Educational Psychology core provides knowledge for understanding research and professional scholarship, techniques of educational and psychological measurement, and typical human growth and development across the life-span. The Counseling core courses provide training in basic helping processes and relationships, career development, social and diversity issues in counseling, group work, appraisal of client issues, counseling theory, and the role of family systems. The Concentration core provides training in advanced strategies for helping clients change, and opportunities for increasing competency with specific populations through field placement. Fieldwork in Counseling and Supervised Practicum in Counseling involve the refinement of more advanced and sophisticated counseling skills in placements in actual counseling settings. Students are required to spend 20 hours each week during the semester at their placement site (an exception to this hour requirement is described below for students interested in seeking experience in dual concentrations). Each concentration requires 48 credits.

The School Counseling concentration prepares students to work as school counselors. The program is approved by the Wisconsin Department of Public Instruction. Students are trained to apply the principles of learning, human development, counseling, and research and measurement within the schools. Preparation is designed to enable students to deliver school counseling programs and services to schools and the community. Students arrange their program of studies in consultation with their advisors so that the 48 credits earned toward a master's degree also will satisfy Wisconsin State Certification requirements. Certification is available as a K-12 School Counselor and as a Bilingual Counselor.

The School Counseling Certification program is for students who already possess a master's degree. Certification students are admitted to the school counseling certification and enroll as non-degree candidates. They need to meet the requirements for school counselor certification, which are generally fewer than the credits required for the M.S. Final selection of courses is determined by consultation with an advisor. Certification is available as a K-12 School Counselor and as a Bilingual Counselor. The requirements for this certification program meet the certification standards of the Wisconsin Department of Public Instruction.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrat/contact-us) online.

Application
Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for department-specific application requirements.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

<table>
<thead>
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<th>Elective credits</th>
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<tr>
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<tr>
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<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
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<td>ED PSY 833</td>
<td>Social Psychology of Group Differences: Race and Ethnicity</td>
</tr>
<tr>
<td>ED PSY 834</td>
<td>The Psychology of Achievement Motivation</td>
</tr>
<tr>
<td>ED PSY 844</td>
<td>The Multicultural Family</td>
</tr>
<tr>
<td>ED PSY 845</td>
<td>Immigrant Child in Developmental Perspective</td>
</tr>
</tbody>
</table>
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Admission - School Counseling Concentration
Admission to the master’s concentrations in counseling takes place in the fall. The Department of Educational Psychology deadline for receipt of completed applications is February 15.

If you are interested in applying to one of the master’s concentrations in counseling, please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for more information. A student handbook containing detailed information on each program is available online; it can be accessed by clicking on the specific program of interest in the left-hand navigation bar. For further questions not addressed on the website, contact the Department of Educational Psychology at edpsydept@uwm.edu.

Students who seek admission to the Clinical Mental Health or School Counseling concentrations within the counseling area must apply through the Graduate School (https://graduateschool-apply.uwm.edu) for admission to the Department of Educational Psychology. Please note that Graduate School deadlines are earlier because they receive, evaluate, and send completed graduate school applications to the Department. Upon admission, the student is assigned to a faculty member of the Department of Educational Psychology-Counseling Area who shall serve as the student’s advisor.

The Counseling Area follows the admissions requirements of the Graduate School and the Department of Educational Psychology.

• 48 credits are required for the School Counseling concentration.
• 60 credits are required for the Clinical Mental Health Counseling concentration.

Credits and Courses

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<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
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<td>COUNS 602</td>
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<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 810</td>
<td>Counseling in the Schools</td>
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</tr>
<tr>
<td>COUNS 816</td>
<td>Counseling Children and Adolescents</td>
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</tbody>
</table>

Electives
Select 3 elective credits 1

Total Credits: 48

1 EXCEDUC 600, is required for non-teachers in place of the elective.

In addition to the courses listed above, students must complete a comprehensive examination, a master’s paper, or a thesis (no more than three thesis credits to apply towards the degree).

Program Requirements

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

Thesis
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Comprehensive Examination
The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

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

Educational Psychology, MS: School Psychology

The School Psychology concentration incorporates the scientist-practitioner model and provides a concrete link between theory, research, and practice. The program prepares students for employment in school and mental health settings. Students are prepared to provide psychological services to children, adolescents, and families; to conduct research; and to empirically evaluate the efficacy of their psychoeducational interventions and assessment procedures.

The following degree options are available:

• Master of Science Degree in Educational Psychology with a concentration in School Psychology;
• Education Specialist Degree in School Psychology; and,
• Ph.D. in Urban Education: Specialization in School Psychology.

The Ph.D. Program is accredited by the American Psychological Association (APA) and the National Association of School Psychologists (NASP).

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.
Application
Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for department-specific application requirements.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program.

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Admission - School Psychology Concentration
The School Psychology concentration incorporates the scientist-practitioner model and provides a concrete link between theory, research, and practice. The program prepares students for employment in school and mental health settings. Students are prepared to provide psychological services to children, adolescents, and families; to conduct research; and to empirically evaluate the efficacy of their psychoeducational interventions and assessment procedures.

The following degree options are available: Master of Science Degree in Educational Psychology with a concentration in School Psychology; Education Specialist Degree in School Psychology; and, a Ph.D. in Urban Education: Specialization in School Psychology. The Ph.D. Program is accredited by the American Psychological Association (APA) and the National Association of School Psychologists (NASP).

Credits and Courses
Students in the Educational Psychology MS - School Psychology concentration pursue either the Education Specialist (Ed.S.) degree or the Ph.D degree. In order to better prepare students for their subsequent degree, there are two curriculum tracks to choose from.

Master's Degree Requirements - Ed.S. track (30 credits minimum)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 751</td>
<td>Professional and Historical Issues in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 752</td>
<td>Developmental Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 755</td>
<td>Assessment and Intervention: School Age</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 851</td>
<td>Assessment and Interventions: Personality, Social and Emotional Functioning</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 805</td>
<td>Consultation Strategies for Counselors and School Psychologists</td>
<td>3</td>
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</table>

Master's Degree Requirements - Ph.D Track (30 credits minimum)

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<tr>
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<td>ED PSY 851</td>
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Educational Statistics and Measurement

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td>3-4</td>
</tr>
<tr>
<td>or ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td></td>
</tr>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
<td>3</td>
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Human Development & Learning

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
<td>3</td>
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</table>

Total Credits 66-67

Master's Examination
Upon successful completion of 30 graduate credits, the student is eligible to become a candidate for the Master of Science in Educational Psychology. The master's degree is awarded pending successful completion of a master's comprehensive examination.

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<tr>
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<td>Consultation Strategies for Counselors and School Psychologists</td>
<td>3</td>
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</table>

Educational Methods and Intervention Strategies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ED PSY 760</td>
<td>Academic Intervention and Alternative Assessment</td>
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Educational Statistics and Measurement

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

Research

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 790</td>
<td>Research or Thesis</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Master's Thesis/Paper
Upon successful completion of 30 graduate credits, the student is eligible to become a candidate for the Master of Science in Educational Psychology. The master's degree is awarded pending successful completion of a master's thesis or paper.
Program Requirements

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

Comprehensive Examination
The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

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

Educational Psychology, PhD: School Psychology

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

• Counseling Psychology
• Learning and Development
• Educational Statistics and Measurement
• School Psychology

See the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master's and doctoral level are accredited by the American Psychological Association (APA).

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

• Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years.
• Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
• A letter outlining the applicant's academic and professional background, declaration of Area of Concentration (Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the Ph.D. program.

• Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential.

A master's degree is not required for admission. However, it is recommended that students seeking admission to the Learning and Development area have a master's degree in educational psychology that includes a thesis or master's paper derived from empirical research before admission. Students with a master's degree and no thesis or master's paper must complete an equivalency paper prior to taking their preliminary exams (see other requirements below).

Credits and Courses

Core Educational Psychology Requirements
All doctoral students are required to complete 36 core credits in the areas of Psychological Foundations, Urban Foundations, and Research Methods. In many cases, students entering with a Master's degree will have completed some of these courses. Courses taken during Master's preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

Psychological Foundations Core: Students must take 12 credits minimum of psychological foundations (social, cognitive, affectionate, or biological basis of behavior); students without Ed Psy 631 and Ed Psy 640 must take these courses as part of their 12-credit minimum.

Urban Foundations: 3 credits minimum.

Research Methods Core: 15 credits

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724 and six credits at the 800 level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
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</table>

Select two of the following: 6 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
</tr>
<tr>
<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
</tr>
<tr>
<td>ED PSY 741</td>
<td>Cognitive Development</td>
</tr>
<tr>
<td>ED PSY 742</td>
<td>Personality Theories and the Educational Process</td>
</tr>
<tr>
<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
</tr>
<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
</tr>
<tr>
<td>ED PSY 747</td>
<td>Human Development: Study of the Adult</td>
</tr>
<tr>
<td>ED PSY 748</td>
<td>Oral Language, Cognition, and Literacy</td>
</tr>
<tr>
<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
</tr>
</tbody>
</table>

Research Methods Core:

Urban Foundations:

Research Methods Core:
ED PSY 833  Social Psychology of Group Differences: Race and Ethnicity
ED PSY 834  The Psychology of Achievement Motivation
ED PSY 844  The Multicultural Family
ED PSY 845  Immigrant Child in Developmental Perspective

Urban Foundations
EDUC 701  Urban Educational Issues 3

Research Core
ED PSY 624  Educational Statistical Methods I 3
ED PSY 626  Workshop in the Computerized Analysis of Educational Data 1
ED PSY 724  Educational Statistical Methods II 4
Select 7 credits from the following: 7
ED PSY 720  Techniques of Educational and Psychological Measurement
ED PSY 728  Techniques of Educational Research
ED PSY 820  Multiple Regression
ED PSY 821  Psychometric Theory and Practice
ED PSY 822  Item Response Theory
ED PSY 823  Structural Equation Modeling
ED PSY 824  Advanced Experimental Design and Analysis
ED PSY 825  Multivariate Methods
ED PSY 826  Analysis of Cross-Classified Categorical Data
ED PSY 827  Survey Research Methods in Education
ED PSY 829  Instrument Development
ED PSY 922  Seminar in Measurement and Evaluation:
ED PSY 929  Seminar in Statistics and Research Design
AD LDSP 729  Qualitative Research and Field Studies in Education Settings

Total Credits 30

Core Concentration Requirements
All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

Other Requirements
In addition to the requirements listed below, please refer to the program handbook for each concentration.

Students Entering Without a Master’s
For the Counseling Psychology concentration, students entering without a Master’s degree in Counseling must also complete the following in order to meet accreditation/certification requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 710</td>
<td>Counseling: Theory and Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 711</td>
<td>Foundations in Career Development</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 714</td>
<td>Essentials of Counseling Practice</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 800</td>
<td>Group Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 970</td>
<td>Supervised Practicum 2 in Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

In the School Psychology concentration, students entering without a master’s degree in School Psychology must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 751</td>
<td>Professional and Historical Issues in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 752</td>
<td>Developmental Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 755</td>
<td>Assessment and Intervention: School Age</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 760</td>
<td>Academic Intervention and Alternative Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 851</td>
<td>Assessment and Interventions: Personality, Social and Emotional Functioning</td>
<td>3</td>
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</table>

School Psychology Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 732</td>
<td>Cognitive Behavioral Intervention Strategies in Education</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 805</td>
<td>Consultation Strategies for Counselors and School Psychologists</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 851</td>
<td>Assessment and Interventions: Personality, Social and Emotional Functioning</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 952</td>
<td>Pediatric Psychology in Urban Settings</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 955</td>
<td>Advanced Therapeutic Interventions</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 960</td>
<td>Evidence-Based Practices in School Psychology Prevention &amp; Intervention</td>
<td>3</td>
</tr>
<tr>
<td>Educational Interventions</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 24

1 Required within concentration.

2 Students in the School Psychology concentration must also complete 6 credits in Educational Interventions in order to meet certification requirements.

Program Requirements

Advising and the Major Professor
Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

Residence
The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/
Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the Ph. D. in Educational Psychology.

**Time Limit**
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

See School Psychology (https://uwm.edu/education/academics/school-psychology) for more information.

### Educational Psychology, PhD: Counseling Psychology

UWM’s PhD specialization in Counseling Psychology follows a scientist-practitioner model that integrates theory, practice and research to give you the scientific knowledge and skills needed to work with multicultural urban populations and in diverse settings.

Our PhD students are expected to conduct research and to advance the science of counseling psychology through scholarly inquiry. Our program, which is accredited by the American Psychological Association*, will prepare you to work as a counseling psychologist in a variety of settings, including universities, hospitals, mental health clinics and private practice.

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Learning and Development
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

### Admission Requirements

#### Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

#### Admission

To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre), test taken within last five years.
• Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
• A letter outlining the applicant's academic and professional background, declaration of Area of Concentration (Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the Ph.D. program.
• Three letters of recommendation from individuals familiar with the applicant’s intellectual achievement and potential.

A master's degree is not required for admission. However, it is recommended that students seeking admission to the Learning and Development area have a master's degree in educational psychology that includes a thesis or master's paper derived from empirical research before admission. Students with a master's degree and no thesis or master's paper must complete an equivalency paper prior to taking their preliminary exams (see other requirements below).

Credits and Courses

Core Doctoral Psychology Requirements

All doctoral students are required to complete 36 core credits in the areas of Psychological Foundations, Urban Foundations, and Research Methods. In many cases, students entering with a Master's degree will have completed some of these courses. Courses taken during Master's preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

Psychological Foundations Core: Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior); students without Ed Psy 631 and Ed Psy 640 must take these courses as part of their 12-credit minimum.

Urban Foundations: 3 credits minimum.

Research Methods Core: 15 credits

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724 and six credits at the 800 level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

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<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following: 6

ED PSY 734  Contextual Determinants of Motivation
ED PSY 735  Social Cognition in Educational Psychology
ED PSY 741  Cognitive Development
ED PSY 742  Personality Theories and the Educational Process
ED PSY 743  Human Development: Study of Infancy and Early Childhood

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<tr>
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<tbody>
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<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
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</tr>
<tr>
<td>ED PSY 747</td>
<td>Human Development: Study of the Adult</td>
<td></td>
</tr>
<tr>
<td>ED PSY 748</td>
<td>Oral Language, Cognition, and Literacy</td>
<td></td>
</tr>
<tr>
<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
<td></td>
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<td>ED PSY 833</td>
<td>Social Psychology of Group Differences: Race and Ethnicity</td>
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<td>The Psychology of Achievement Motivation</td>
<td></td>
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<tr>
<td>ED PSY 844</td>
<td>The Multicultural Family</td>
<td></td>
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<tr>
<td>ED PSY 845</td>
<td>Immigrant Child in Developmental Perspective</td>
<td></td>
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Urban Foundations

EDUC 701  Urban Educational Issues  3

Research Core

ED PSY 624  Educational Statistical Methods I  3
ED PSY 626  Workshop in the Computerized Analysis of Educational Data  1
ED PSY 724  Educational Statistical Methods II  4

Select 7 credits from the following: 7

ED PSY 720  Techniques of Educational and Psychological Measurement
ED PSY 728  Techniques of Educational Research
ED PSY 820  Multiple Regression
ED PSY 821  Psychometric Theory and Practice
ED PSY 822  Item Response Theory
ED PSY 823  Structural Equation Modeling
ED PSY 824  Advanced Experimental Design and Analysis
ED PSY 825  Multivariate Methods
ED PSY 826  Analysis of Cross-Classified Categorical Data
ED PSY 827  Survey Research Methods in Education
ED PSY 829  Instrument Development
ED PSY 922  Seminar in Measurement and Evaluation:
ED PSY 929  Seminar in Statistics and Research Design
AD LDSP 729  Qualitative Research and Field Studies in Education Settings

Total Credits 30

Core Concentration Requirements

All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

Other Requirements

In addition to the requirements listed below, please refer to the program handbook for each concentration.

Students Entering Without a Master’s

For the Counseling Psychology concentration, students entering without a Master’s degree in Counseling must also complete the following in order to meet accreditation/certification requirements:

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<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
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</tbody>
</table>

Select two of the following: 6

ED PSY 734  Contextual Determinants of Motivation
ED PSY 735  Social Cognition in Educational Psychology
ED PSY 741  Cognitive Development
ED PSY 742  Personality Theories and the Educational Process
ED PSY 743  Human Development: Study of Infancy and Early Childhood

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<td>ED PSY 747</td>
<td>Human Development: Study of the Adult</td>
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<tr>
<td>ED PSY 748</td>
<td>Oral Language, Cognition, and Literacy</td>
<td></td>
</tr>
<tr>
<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
<td></td>
</tr>
<tr>
<td>ED PSY 833</td>
<td>Social Psychology of Group Differences: Race and Ethnicity</td>
<td></td>
</tr>
<tr>
<td>ED PSY 834</td>
<td>The Psychology of Achievement Motivation</td>
<td></td>
</tr>
<tr>
<td>ED PSY 844</td>
<td>The Multicultural Family</td>
<td></td>
</tr>
<tr>
<td>ED PSY 845</td>
<td>Immigrant Child in Developmental Perspective</td>
<td></td>
</tr>
</tbody>
</table>
In the School Psychology concentration, students entering without a master's degree in School Psychology must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 803</td>
<td>Vocational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 807</td>
<td>Advanced Counseling Strategies:</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 814</td>
<td>Professional, Ethical and Legal Issues</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>in Counseling Psychology</td>
<td></td>
</tr>
<tr>
<td>COUNS 815</td>
<td>Advanced Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 840</td>
<td>Psychological Assessment</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 860</td>
<td>Capstone-Research in Counseling Psychology</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 917</td>
<td>Supervision of Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits** 21

### Program Requirements

#### Advising and the Major Professor

Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

#### Residence

The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

#### Practicum

Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

#### Internship

Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

#### Publishable Paper

Students are required to work with faculty to have a “publishable” paper within 30 credits of admission to the doctoral program. This may be their master’s theses and/or master’s papers, where original research is generated or a critical review of research is developed. It may also be a collaborative effort, such as publishing a chapter or article with a faculty advisor or other faculty collaborator.

#### Minor

Counseling Psychology and School Psychology students must complete 9 credits in the Department of Psychology. The minor will be optional for students in Learning & Development and Educational Statistics and Measurement, based on consultation with an advisor.

#### Doctoral Preliminary Examination

The Doctoral Preliminary Examination is taken at the end of a student’s coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student’s specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student’s Preliminary Examination.

#### Proposal Hearing

A doctoral student qualifies as a “doctoral candidate” upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the Ph.D. degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

#### Dissertation Defense

The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

#### Exit Requirements

Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational...
Psychology will give final approval of the Ph. D. in Educational Psychology.

**Time Limit**
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

**Educational Psychology, PhD:**
**Educational Statistics and Measurement**
Student learning is measured more than ever before, and that means that the education field needs professionals who have expertise in educational statistics and measurement.

You'll find our graduates working in universities, state and federal agencies, test publishing organizations, school systems, state departments of education, marketing research companies and research centers, among other settings.

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Learning and Development
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master's and doctoral level are accredited by the American Psychological Association (APA).

**Admission Requirements**

**Admission**
To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years.
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant's academic and professional background, declaration of Area of Concentration (Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the Ph.D. program.
- Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential.

A master's degree is not required for admission. However, it is recommended that students seeking admission to the Learning and Development area have a master's degree in educational psychology that includes a thesis or master's paper derived from empirical research before admission. Students with a master's degree and no thesis or master's paper must complete an equivalency paper prior to taking their preliminary exams (see other requirements below).

**Credits and Courses**

**Core Educational Psychology Requirements**
All doctoral students are required to complete 36 core credits in the areas of Psychological Foundations, Urban Foundations, and Research Methods. In many cases, students entering with a Master's degree will have completed some of these courses. Courses taken during Master's preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

**Psychological Foundations Core:** Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior); students without Ed Psy 631 and Ed Psy 640 must take these courses as part of their 12-credit minimum.

**Urban Foundations:** 3 credits minimum.

**Research Methods Core:** 15 credits

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724 and six credits at the 800 level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
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Select two of the following: 6

<table>
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<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
</tr>
<tr>
<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
</tr>
<tr>
<td>ED PSY 741</td>
<td>Cognitive Development</td>
</tr>
<tr>
<td>ED PSY 742</td>
<td>Personality Theories and the Educational Process</td>
</tr>
<tr>
<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
</tr>
<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
</tr>
<tr>
<td>ED PSY 747</td>
<td>Human Development: Study of the Adult</td>
</tr>
<tr>
<td>ED PSY 748</td>
<td>Oral Language, Cognition, and Literacy</td>
</tr>
<tr>
<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
</tr>
<tr>
<td>ED PSY 833</td>
<td>Social Psychology of Group Differences: Race and Ethnicity</td>
</tr>
<tr>
<td>ED PSY 834</td>
<td>The Psychology of Achievement Motivation</td>
</tr>
</tbody>
</table>
### Core Concentration Requirements

All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

### Other Requirements

In addition to the requirements listed below, please refer to the program handbook for each concentration.

### Students Entering Without a Master’s

For the Counseling Psychology concentration, students entering without a Master's degree in Counseling must also complete the following in order to meet accreditation/certification requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 710</td>
<td>Counseling: Theory and Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 711</td>
<td>Foundations in Career Development</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 714</td>
<td>Essentials of Counseling Practice</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 800</td>
<td>Group Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 970</td>
<td>Supervised Practicum 2 in Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

In the School Psychology concentration, students entering without a master's degree in School Psychology must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ED PSY 751</td>
<td>Professional and Historical Issues in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 752</td>
<td>Developmental Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 755</td>
<td>Assessment and Intervention: School Age</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 760</td>
<td>Academic Intervention and Alternative Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 851</td>
<td>Assessment and Interventions: Personality, Social and Emotional Functioning</td>
<td>3</td>
</tr>
</tbody>
</table>

### Educational Statistics and Measurement Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 728</td>
<td>Techniques of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 820</td>
<td>Multiple Regression</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 821</td>
<td>Psychometric Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 822</td>
<td>Item Response Theory</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 823</td>
<td>Structural Equation Modeling</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 824</td>
<td>Advanced Experimental Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 825</td>
<td>Multivariate Methods</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 826</td>
<td>Analysis of Cross-Classified Categorical Data</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 827</td>
<td>Survey Research Methods in Education</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 829</td>
<td>Instrument Development</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 922</td>
<td>Seminar in Measurement and Evaluation:</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 929</td>
<td>Seminar in Statistics and Research Design</td>
<td>3</td>
</tr>
<tr>
<td>AD LDSP 729</td>
<td>Qualitative Research and Field Studies in Education Settings</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 24

### Program Requirements

#### Advising and the Major Professor

Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

#### Residence

The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate
studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

**Practicum**
Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

**Internship**
Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

**Publishable Paper**
Students are required to work with faculty to have a “publishable” paper within 30 credits of admission to the doctoral program. This may be their master’s theses and/or master’s papers, where original research is generated or a critical review of research is developed. It may also be a collaborative effort, such as publishing a chapter or article with a faculty advisor or other faculty collaborator.

**Minor**
Counseling Psychology and School Psychology students must complete 9 credits in the Department of Psychology. The minor will be optional for students in Learning & Development and Educational Statistics and Measurement, based on consultation with an advisor.

**Doctoral Preliminary Examination**
The Doctoral Preliminary Examination is taken at the end of a student’s coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student’s specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student’s Preliminary Examination.

**Proposal Hearing**
A doctoral student qualifies as a “doctoral candidate” upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the Ph.D. degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

**Dissertation Defense**
The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

**Exit Requirements**
Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the Ph. D. in Educational Psychology.

**Time Limit**
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

**Educational Psychology, PhD: Learning and Development**
This graduate-level program emphasizes the perspective of the learner and trains students to conduct cutting-edge research applied to a broad range of learning contexts — from schools to museums to home — throughout the human lifespan. Students in the L&D program can pursue a master’s or doctoral degree in Educational Psychology while working closely with one of our faculty members (http://uwm.edu/education/academics/learning-development/#a1).

Graduates of the MS program go on to pursue a PhD (often in Educational Psychology or a related field) or find jobs in education and/or research settings in the private or public sectors. Many graduates of our PhD program pursue careers at research institutes and universities.

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Learning and Development
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years.
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
A letter outlining the applicant's academic and professional background, declaration of Area of Concentration (Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the Ph.D. program.

Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential.

A master's degree is not required for admission. However, it is recommended that students seeking admission to the Learning and Development area have a master's degree in educational psychology that includes a thesis or master's paper derived from empirical research before admission. Students with a master's degree and no thesis or master's paper must complete an equivalency paper prior to taking their preliminary exams (see other requirements below).

Credits and Courses

Core Educational Psychology Requirements
All doctoral students are required to complete 36 core credits in the areas of Psychological Foundations, Urban Foundations, and Research Methods. In many cases, students entering with a Master's degree will have completed some of these courses. Courses taken during Master's preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

Psychological Foundations Core: Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior); students without Ed Psy 631 and Ed Psy 640 must take these courses as part of their 12-credit minimum.

Urban Foundations: 3 credits minimum.

Research Methods Core: 15 credits
All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724 and six credits at the 800 level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

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Select two of the following: 6

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<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
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</table>

ED PSY 747 | Human Development: Study of the Adult         |         |
ED PSY 748 | Oral Language, Cognition, and Literacy        |         |
ED PSY 831 | Cognition: Theory and Research                |         |
ED PSY 833 | Social Psychology of Group Differences: Race and Ethnicity |         |
ED PSY 834 | The Psychology of Achievement Motivation      |         |
ED PSY 844 | The Multicultural Family                      |         |
ED PSY 845 | Immigrant Child in Developmental Perspective  |         |

Urban Foundations
EDUC 701 | Urban Educational Issues                      | 3       |

Research Core
ED PSY 624 | Educational Statistical Methods I             | 3       |
ED PSY 626 | Workshop in the Computerized Analysis of Educational Data | 1       |
ED PSY 724 | Educational Statistical Methods II            | 4       |
Select 7 credits from the following: 7

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<td>Advanced Experimental Design and Analysis</td>
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<td>Multivariate Methods</td>
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<td>Survey Research Methods in Education</td>
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<td>Instrument Development</td>
<td></td>
</tr>
<tr>
<td>ED PSY 922</td>
<td>Seminar in Measurement and Evaluation:</td>
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</tr>
<tr>
<td>ED PSY 929</td>
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<tr>
<td>AD LDSP 729</td>
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</tr>
</tbody>
</table>

Total Credits 30

Core Concentration Requirements
All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

Other Requirements
In addition to the requirements listed below, please refer to the program handbook for each concentration.

Students Entering Without a Master’s
For the Counseling Psychology concentration, students entering without a Master’s degree in Counseling must also complete the following in order to meet accreditation/certification requirements:
Advising and the Major Professor

Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

Residence

The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

Practicum

Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

Internship

Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

Publishable Paper

Students are required to work with faculty to have a “publishable” paper within 30 credits of admission to the doctoral program. This may be their master’s theses and/or master’s papers, where original research is generated or a critical review of research is developed. It may also be a collaborative effort, such as publishing a chapter or article with a faculty advisor or other faculty collaborator.

Minor

Counseling Psychology and School Psychology students must complete 9 credits in the Department of Psychology. The minor will be optional for students in Learning & Development and Educational Statistics and Measurement, based on consultation with an advisor.

Doctoral Preliminary Examination

The Doctoral Preliminary Examination is taken at the end of a student’s coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student’s specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student’s Preliminary Examination.

Proposal Hearing

A doctoral student qualifies as a “doctoral candidate” upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the Ph.D. degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation
Dissertation Defense
The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

Exit Requirements
Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the Ph. D. in Educational Psychology.

Time Limit
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

See Learning and Development (https://uwm.edu/education/academics/learning-development) for more information

Educational Psychology, MS
The Department of Educational Psychology resides in the School of Education at the University of Wisconsin-Milwaukee and prepares graduate students for a variety of clinical, research, and teaching professions at the master’s or doctoral level.

The Master of Science in Educational Psychology is designed to serve those who want to increase their understanding of human behavior from conception through adulthood, research and evaluation of learning, and teaching in informal and formal educational settings. The program permits concentrations in School Counseling, Community Counseling, School Psychology, Human Development and Learning, and Educational Statistics and Measurement. The Department also offers certification sequences to qualify students as school psychologists and school counselors.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
Before applying please see the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for department-specific application requirements.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program

1. An undergraduate GPA of 3.00.
2. At least 18 undergraduate credits in education or related social sciences. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

Applications will choose from the following concentrations to determine which application to complete:

• Clinical Mental Health Counseling
• Learning & Development
• Research & Evaluation
• School Counseling
• School Psychology

Credits and Courses
Each concentration has unique requirements; the student should consult the descriptions of each concentration to determine specific requirements. Descriptions are available from the Department.

Students seeking an emphasis in counseling are required to complete 48 credits.

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

Thesis
Optional. Up to 6 degree credits may be awarded for thesis research.

Comprehensive Examination
The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

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

Educational Psychology, PhD
The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

• Counseling Psychology
• Learning and Development
• Educational Statistics and Measurement
• School Psychology
See the Educational Psychology Website (https://uwm.edu/education/academics/educational-psychology-department) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

### Admission Requirements

#### Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

#### Admission

To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/gre); test taken within last five years.
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant’s academic and professional background, declaration of Area of Concentration (Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the Ph.D. program.
- Three letters of recommendation from individuals familiar with the applicant’s intellectual achievement and potential.

A master’s degree is not required for admission. However, it is recommended that students seeking admission to the Learning and Development area have a master’s degree in educational psychology that includes a thesis or master’s paper derived from empirical research before admission. Students with a master’s degree and no thesis or master’s paper must complete an equivalency paper prior to taking their preliminary exams (see other requirements below).

### Credits and Courses

#### Core Educational Psychology Requirements

All doctoral students are required to complete 36 core credits in the areas of Psychological Foundations, Urban Foundations, and Research Methods. In many cases, students entering with a Master’s degree will have completed some of these courses. Elective credits are taken in consultation with the major professor.

**Psychological Foundations Core:** Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior); students without Ed Psy 631 and Ed Psy 640 must take these courses as part of their 12-credit minimum.

**Urban Foundations:** 3 credits minimum.

**Research Methods Core:** 15 credits

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724 and six credits at the 800 level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

#### Credits and Courses Table

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Psychological Foundations Core</strong></td>
<td></td>
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<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td>3</td>
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<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
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<td><strong>Select two of the following:</strong></td>
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<tr>
<td>ED PSY 734</td>
<td>Contextual Determinants of Motivation</td>
<td></td>
</tr>
<tr>
<td>ED PSY 735</td>
<td>Social Cognition in Educational Psychology</td>
<td></td>
</tr>
<tr>
<td>ED PSY 741</td>
<td>Cognitive Development</td>
<td></td>
</tr>
<tr>
<td>ED PSY 742</td>
<td>Personality Theories and the Educational Process</td>
<td></td>
</tr>
<tr>
<td>ED PSY 743</td>
<td>Human Development: Study of Infancy and Early Childhood</td>
<td></td>
</tr>
<tr>
<td>ED PSY 746</td>
<td>Human Development: Study of the Adolescent</td>
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<tr>
<td>ED PSY 747</td>
<td>Human Development: Study of the Adult</td>
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<tr>
<td>ED PSY 748</td>
<td>Oral Language, Cognition, and Literacy</td>
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<tr>
<td>ED PSY 831</td>
<td>Cognition: Theory and Research</td>
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<tr>
<td>ED PSY 833</td>
<td>Social Psychology of Group Differences: Race and Ethnicity</td>
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<tr>
<td>ED PSY 834</td>
<td>The Psychology of Achievement Motivation</td>
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<tr>
<td>ED PSY 844</td>
<td>The Multicultural Family</td>
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<tr>
<td>ED PSY 845</td>
<td>Immigrant Child in Developmental Perspective</td>
<td></td>
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<tr>
<td><strong>Urban Foundations</strong></td>
<td>Urban Educational Issues</td>
<td>3</td>
</tr>
<tr>
<td><strong>Research Core</strong></td>
<td></td>
<td></td>
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<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td>3</td>
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<tr>
<td>ED PSY 626</td>
<td>Workshop in the Computerized Analysis of Educational Data</td>
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<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td>4</td>
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<tr>
<td><strong>Select 7 credits from the following:</strong></td>
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<tr>
<td>ED PSY 720</td>
<td>Techniques of Educational and Psychological Measurement</td>
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<tr>
<td>ED PSY 728</td>
<td>Techniques of Educational Research</td>
<td></td>
</tr>
<tr>
<td>ED PSY 820</td>
<td>Multiple Regression</td>
<td></td>
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<tr>
<td>ED PSY 821</td>
<td>Psychometric Theory and Practice</td>
<td></td>
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<tr>
<td>ED PSY 822</td>
<td>Item Response Theory</td>
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<tr>
<td>ED PSY 823</td>
<td>Structural Equation Modeling</td>
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<tr>
<td>ED PSY 824</td>
<td>Advanced Experimental Design and Analysis</td>
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<td>ED PSY 825</td>
<td>Multivariate Methods</td>
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</tr>
<tr>
<td>ED PSY 826</td>
<td>Analysis of Cross-Classified Categorical Data</td>
<td></td>
</tr>
<tr>
<td>ED PSY 827</td>
<td>Survey Research Methods in Education</td>
<td></td>
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</tbody>
</table>
Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

Residence
The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

Practicum
Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

Internship
Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

Publishable Paper
Students are required to work with faculty to have a “publishable” paper within 30 credits of admission to the doctoral program. This may be their master’s theses and/or master’s papers, where original research is generated or a critical review of research is developed. It may also be a collaborative effort, such as publishing a chapter or article with a faculty advisor or other faculty collaborator.

Minor
Counseling Psychology and School Psychology students must complete 9 credits in the Department of Psychology. The minor will be optional for students in Learning & Development and Educational Statistics and Measurement, based on consultation with an advisor.

Program Requirements
Advising and the Major Professor
Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Learning and Development, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual
**Dissertation Defense**
The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

**Exit Requirements**
Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the Ph. D. in Educational Psychology.

**Time Limit**
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

**Multicultural Knowledge of Mental Health Practices, Graduate Certificate**

As of Spring 2017, the Multicultural Knowledge of Mental Health Practices certificate has suspended admission. This means that unless you have been accepted into this certificate program prior to Spring 2017, you will not be able to earn the certificate. The following information is provided solely for the benefit of students accepted into the Multicultural Knowledge of Mental Health Practices certificate prior to Spring 2017.

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
A graduate GPA of at least 3.0 or concurrent enrollment in a graduate degree program with a GPA of at least 3.0 is required for admission.

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

**Credits and Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 704</td>
<td>Multicultural Mental Health Guidelines and Ethics Overview</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COUNS 705</td>
<td>Multicultural Practice: Awareness and Knowledge of Others</td>
</tr>
<tr>
<td></td>
<td>COUNS 740</td>
<td>Multicultural Mental Health Guidelines for Working with Latinos</td>
</tr>
<tr>
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<td>COUNS 741</td>
<td>Multicultural Mental Health Guidelines for Working with LGBT Individuals</td>
</tr>
<tr>
<td></td>
<td>COUNS 742</td>
<td>Multicultural Health Guidelines for Working with Asian Americans</td>
</tr>
<tr>
<td></td>
<td>COUNS 743</td>
<td>Multicultural Mental Health Guidelines for Working with African Americans</td>
</tr>
<tr>
<td></td>
<td>COUNS 744</td>
<td>Multicultural Mental Health Guidelines, Working with First Nations Persons</td>
</tr>
<tr>
<td></td>
<td>COUNS 745</td>
<td>Multicultural Mental Health Guidelines for Working with Men</td>
</tr>
</tbody>
</table>

Total Credits 15

**Certificate Requirements**

**Exit Requirements**
To earn the certificate, students must complete all certificate courses with a grade of B or better. No Incomplete (I) grades will be given.

**Transfer Credit**
No credits may be taken at an institution other than UWM.

**Grade Point Average Requirement**
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:
- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.
For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

School Counseling, Graduate Certificate

The School Counseling Certificate program is provided for students who already possess a master's degree and need to meet the course requirements for certification as a K-12 School Counselor, as listed below. Courses can be waived if equivalent courses have already been completed, as determined by consultation with an advisor. The requirements for this certification program meet the certification standards of the Wisconsin Department of Public Instruction. For more information on the School Counseling: Initial Educator: K-12, five-year license, please see the Wisconsin Department of Public Instruction Website (http://www.dpi.state.wi.us).

In order to be eligible to receive an initial educator license as a school counselor, students will need to:

1. Complete the coursework and practica listed below
2. Complete a portfolio assessment
3. Pass the national Praxis II licensing examination

Other states have different licensing standards and if you are interested in being eligible for a different state you are strongly encouraged to contact that state's Department of Public Instruction to ascertain whether additional requirements are necessary.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

In order to successfully complete the certification sequence, a student must be accepted into the School Counseling Post-Master's Certificate Program. To be considered, applicants must have a graduate GPA of 3.0 or better, and must complete the Panthera Admission Application (https://graduateschool-apply.uwm.edu).

Application

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

Credits and Courses

Students will need to complete the following sequence of courses from the Counseling Core and the School Core, or have equivalent previous coursework, as determined in consultation with an advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 710</td>
<td>Counseling: Theory and Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 711</td>
<td>Foundations in Career Development</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 714</td>
<td>Essentials of Counseling Practice</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 800</td>
<td>Group Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 820</td>
<td>Counseling Appraisal and Clinical Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
<td>3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNS 602</td>
<td>Introduction to School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 774</td>
<td>Trauma Counseling I: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 810</td>
<td>Counseling in the Schools</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 816</td>
<td>Counseling Children and Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 968</td>
<td>Supervised Practicum 2 in School Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 36

Certificate Requirements

Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement

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

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:

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

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

**School Psychology, EdS**

Upon completion of the master's degree in Educational Psychology (i.e., 30 graduate credits and successful completion of the master's exam, paper or thesis), the student will be considered for the Education Specialist Degree program in School Psychology. The student must file an application for the EdS with the Graduate School. Admission to the EdS program is dependent upon recommendation of the student’s advisor and final approval of the school psychology faculty. Decisions will be made on the basis of successful completion of master’s degree requirements, a minimum of at least one “satisfactory” annual review, and adequate demonstration of knowledge through review of the student’s progressive portfolio (see the School Psychology Student Handbook for these evaluations).

Students who are not recommended for admission into the Education Specialist Degree program are not eligible for school psychology certification through UWM.

The Department of Educational Psychology resides in the School of Education at the University of Wisconsin-Milwaukee and prepares graduate students for a variety of clinical, research, and teaching professions at the master’s or doctoral level.

The Master of Science in Educational Psychology is designed to serve those who want to increase their understanding of human behavior from conception through adulthood, research and evaluation of learning, and teaching in informal and formal educational settings. The program permits concentrations in School Counseling, Community Counseling, School Psychology, Human Development and Learning, and Educational Statistics and Measurement. The Department also offers certification sequences to qualify students as school psychologists and school counselors.

The Counseling Psychology and School Psychology specializations at the master’s and doctoral level are accredited by the American Psychological Association (APA).

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Credits and Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ED PSY 732</td>
<td>Cognitive Behavioral Intervention Strategies in Education</td>
<td>3</td>
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<tr>
<td>ED PSY 952</td>
<td>Pediatric Psychology in Urban Settings</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 955</td>
<td>Advanced Therapeutic Interventions</td>
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</tr>
<tr>
<td>ED PSY 974</td>
<td>Beginning Practicum in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 975</td>
<td>Advanced Practicum in School Psychology</td>
<td>6</td>
</tr>
<tr>
<td>ED PSY 976</td>
<td>MS Internship in School Psychology</td>
<td>6</td>
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</tbody>
</table>

**School Psychology Electives**

Select two of the following:
- ED PSY 579 Current Topics in Educational Psychology: (with appropriate topic)
- ED PSY 779 Current Topics in Educational Psychology: (with appropriate topic)
- ED PSY 631 Cognition: Learning, Problem Solving and Thinking (or other course chosen in consultation with advisor)
- ED PSY 852 Social, Psychological, and Biological Basis of Learning Disorders
- COUNS 805 Consultation Strategies for Counselors and School Psychologists
- CURRINS 747 Reading Assessment and Instruction with Practicum: K-12 Part I
- EXCEDUC 715 Issues and Trends in Exceptional Education

**Program Requirements**

**Education Specialist Final Project**

Upon completion of all course work, including practicum, students will demonstrate their professional knowledge by completing a Education Specialist Final Project. The Final Project will demonstrate the student’s knowledge and proficiency in a clinical area such as innovative assessment practices, consultation, psychosocial therapy, or behavioral/academic intervention planning. Students will demonstrate their knowledge and proficiency by successfully completing one of the following projects:

- Produce a videotape showing a consultation session with a consultee
- Produce a videotape of a therapy session with a child or adolescent
- Develop a treatment manual for reducing psychosocial, behavioral or academic problems in children or adolescents
- Develop a parenting program for families with difficult or at-risk children
- Develop materials for an in-service program for teachers or parents (i.e., power point presentation, overheads, or manual)
- Develop a school-wide prevention program for at-risk students
• Develop an innovative assessment program for reducing academic, behavioral and/or psychosocial problems

The Education Specialist Final Projects are due at the end of the internship. Projects will be judged to be acceptable by the school psychology faculty in charge of the internship and the student’s advisor. Recommendations for satisfactory completion of all of the Education Specialist degree requirements will be made by the student’s advisor, and will be forwarded to the department chair.

Certification as a School Psychologist
Students completing the M.S. concentration and the Ed.S. in School Psychology are eligible for certification as a School Psychologist in the State of Wisconsin. School Psychologists are eligible and encouraged to obtain National Certification as a School Psychologist (NCSP) by taking the national certification examination.

Trauma Informed Care, Graduate Certificate (School of Education, Department of Educational Psychology)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

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

Admission
Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

Credits and Courses

All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/COUNS/ NURS/OCCTHPY 774</td>
<td>Trauma Counseling I: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK/COUNS/ NURS/OCCTHPY 775</td>
<td>Trauma Counseling II: Diagnosis and Treatment</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 9 elective credits (see Potential Electives list below)  9

Recommended Field Work
Select 3-6 credits from the following:  3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 921</td>
<td>Field Instruction V</td>
<td></td>
</tr>
<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
<td></td>
</tr>
<tr>
<td>COUNS 765</td>
<td>Supervised Practicum 1 in Clinical Mental Health Counseling</td>
<td></td>
</tr>
<tr>
<td>NURS 737</td>
<td>Clinical Nurse Specialist: Practicum I</td>
<td></td>
</tr>
<tr>
<td>NURS 738</td>
<td>Clinical Nurse Specialist: Practicum II</td>
<td></td>
</tr>
<tr>
<td>NURS 739</td>
<td>Clinical Nurse Specialist: Practicum III</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 725</td>
<td>Occupational Therapy Field Service I</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 735</td>
<td>Occupational Therapy Field Service II</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18-21

1 Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in in trauma-informed practice field settings, contingent on the respective department’s field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Occupational Therapy—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

Potential Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/CRM JST 497</td>
<td>Study Abroad: (Bristol or South Africa)</td>
<td>1-6</td>
</tr>
<tr>
<td>SOC WRK 820</td>
<td>Seminar in Social Work Practice: (Qualifying topics: Violent &amp; Traumatized Families or Motivational Interview)</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 754</td>
<td>Child and Adolescent Psychopathology</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 691</td>
<td>Practice Methods in Social Work: (Topic: Community Building &amp; Mindfulness)</td>
<td>1-3</td>
</tr>
<tr>
<td>SOC WRK 680</td>
<td>Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 818</td>
<td>Treatment of Co-Occurring Disorders</td>
<td>3</td>
</tr>
</tbody>
</table>
### Certificate Requirements

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

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

**Articulation with Degree Programs**

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

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

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

---

<table>
<thead>
<tr>
<th>PSYCH 711</th>
<th>Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning &amp; Memory)</th>
<th>1-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 727</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PH 732</td>
<td>Youth Mental Health Practice for Non Mental Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 704 &amp; COUNS 705</td>
<td>Multicultural Mental Health Guidelines and Ethics Overview and Multicultural Practice: Awareness and Knowledge of Others ¹</td>
<td>6</td>
</tr>
<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 744</td>
<td>Multicultural Mental Health Guidelines, Working with First Nations Persons</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 812</td>
<td>Clinical Studies in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 816</td>
<td>Counseling Children and Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 820</td>
<td>Counseling Appraisal and Clinical Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ COUNS 704 and COUNS 705 must be taken together to fulfill this requirement.
TEACHING AND LEARNING

The Department of Teaching and Learning is comprised of scholars, educators, practitioners, and staff committed to the development of teachers and the support of learners through scholarship, teaching, service, and collaborative engagement. Our teacher preparation, professional development, interpreter training, and American Sign Language programs embodies a commitment to social justice, equity, and advocacy that inspires and informs how we educate students to be effective, evidence-based practitioners, scholars, and leaders to serve diverse communities situated locally, regionally, and globally.

At the undergraduate level, the department offers teacher education programs for Early Childhood (grades PK-3), Middle Childhood Through Early Adolescence (grades 1-8), Early Adolescence Through Adolescence (grades 6-12), and Early Childhood Through Adolescence Level (PK-12), in regular and special education. The department offers interpreter training (grades 6-12), and Early Childhood Through Adolescence Level (PK-12), in Early Adolescence (grades 1-8), Early Adolescence Through Adolescence (grades 6-12), and American Sign Language programs at the undergraduate level. At the graduate level, the department offers Masters degrees in Curriculum and Instruction (with multiple specializations) and Exceptional Education, certificates in a wide variety of specialty areas, and participates in the School-wide Urban Education Doctoral Program.

- Advanced Study in Teaching and Learning, Graduate Certificate (p. 553)
- Arts Integration and Learning, Undergraduate Certificate (School of Education) (p. 554)
- Assistive Technology and Accessible Design, Graduate Certificate (School of Education, Department of Teaching and Learning) (p. 555)
- Autism Spectrum Disorders, Graduate Certificate (p. 556)
- Autism Spectrum Disorders, Undergraduate Certificate (p. 557)
- Bilingual Education (Supplemental), Minor (p. 558)
- Curriculum and Instruction, MS: Cultures and Communities Education (p. 559)
- Curriculum and Instruction, MS: Early Childhood Education (p. 560)
- Curriculum and Instruction, MS: English Education: Creative Writing (p. 561)
- Curriculum and Instruction, MS: English Education: Language and Linguistics (p. 562)
- Curriculum and Instruction, MS: English Education: Literary Studies (p. 563)
- Curriculum and Instruction, MS: English Education: Modern Studies (p. 564)
- Curriculum and Instruction, MS: English Education: Professional Writing (p. 565)
- Curriculum and Instruction, MS: English Education: Rhetoric and Composition (p. 566)
- Curriculum and Instruction, MS: Mathematics Education (p. 556)
- Curriculum and Instruction, MS: Mathematics Teacher Leadership (p. 567)
- Curriculum and Instruction, MS: Reading Education (p. 568)
- Curriculum and Instruction, MS: Science Education (p. 569)
- Curriculum and Instruction, MS: Urban Social Studies (p. 570)
- Education, BS: Early Adolescence - Adolescence Level: Math (p. 571)
- Education, BS: Early Adolescence - Adolescence Level: Science (p. 574)
- Education, BS: Early Adolescence - Adolescence Level: Social Studies (p. 577)
- Education, BS: Early Adolescence-Adolescence Level: English (p. 580)
- Education, BS: Early Childhood (p. 584)
- Education, BS: Early Childhood-Adolescence: English as a Second Language (p. 587)
- Education, BS: Early Childhood-Adolescence: World Language (p. 590)
- Education, BS: Elementary Education (p. 596)
- Education, BS: Inclusion and Accessibility Studies (p. 594)
- English as a Second Language, Minor (p. 600)
- Exceptional Education, BS: Early Adolescence - Adolescence (p. 601)
- Exceptional Education, BS: Early Childhood (p. 604)
- Exceptional Education, BS: Middle Childhood - Early Adolescence (p. 607)
- Exceptional Education, MS (p. 609)
- Inclusion and Accessibility Studies, Minor (p. 611)
- Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate (p. 612)
- Mathematics Teacher Leadership, Graduate Certificate (p. 613)
- Transition for Students with Disabilities, Graduate Certificate (p. 614)
- World Language, Minor (p. 615)

Curriculum and Instruction Courses

CURREN 110 Reading Proficiency for College Students I
1 cr. Undergraduate.
Presentation of techniques for the acquisition of basic reading skills. Emphasis on vocabulary building, text organizational structures, and comprehension.
Prerequisites: completion of Nelson-Denny reading test.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Fall 2012.
Current Offerings: [Link]

CURREN 111 Introduction to College Reading
2 cr. Undergraduate.
Understanding and application of college level reading skills.
Prerequisites: none.
Course Rules: Counts as repeat of Currens 279 with same topic.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Summer 2016.
Current Offerings: [Link]

CURREN 112 College Reading:
1 cr. Undergraduate.
Read and respond to text and essays by summarizing information, examining perspective, comparing and contrasting ideas and evaluating arguments.
Prerequisites: none.
Course Rules: May be retaken to max of 3 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [Link]
CURRENS 140 Field Experience with Families & Communities
1 cr. Undergraduate.
Field experience in local agencies providing services to families.
Prerequisites: Currens 312(C) or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRENS 233 Introduction to Children's and Young Adult Literature
3 cr. Undergraduate.
Introductory survey will focus on the literary merit and cultural contexts
of works written for children and young adults.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRENS 234 Teachers as Writers
3 cr. Undergraduate.
Focus on various rhetorical modes of writing, stylistic strategies, and
grammatical constructions from a teaching perspective.
Prerequisites: OWC Part A.
General Education Requirements: OWCB, HU
Current Offerings: http://uwm.edu/schedule

CURRENS 240 Field Experience with Dual Language Learners
2 cr. Undergraduate.
Field experience with dual language learners in various settings.
Prerequisites: Currens 140(P) & 501(C), or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRENS 250 1st-Year Student Seminar: Early Childhood Education
1 cr. Undergraduate.
Introductory seminar for first-year and transfer Early Childhood Education
intended students.
Prerequisites: none.
Course Rules: Counts as repeat of CurrIns 279 with same topic.
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

CURRENS 279 Current Topics in Curriculum and Instruction:
1-3 cr. Undergraduate.
Special topics for undergraduates will be offered from time to time. See
Schedule of Classes.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

CURRENS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

CURRENS 300 Introduction to Teaching: Colloquium and Fieldwork
3 cr. Undergraduate.
Introduction to the teaching profession and teaching in urban schools.
Provides an overview of educational, multicultural, social, economic, and
political issues that influence urban schools.
Prerequisites: soph st.
Course Rules: Counts as repeat of CurrIns 100.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRENS 301 Infants and Toddlers: Curriculum and Teaching
3 cr. Undergraduate.
Approaches to infant/toddler care and education; instructional material
and techniques to foster infant/toddler development; strategies for
administering and managing learning environments.
Prerequisites: soph st & admis to School of Educ; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRENS 302 Curriculum Design in Early Childhood
3 cr. Undergraduate.
Curriculum design and unit development in pre-primary and early primary
classrooms.
Prerequisites: jr st & admis to School of Educ; or cons instr.
Current Offerings: http://uwm.edu/schedule

CURRENS 306 MCEA Clinical Experience, Grades 1-3
1 cr. Undergraduate.
Clinical experience with children in grades 1-3. Focus on literacy tutoring
with individual students and in small groups.
Prerequisites: jr st, admis to SOE, Currens 536(C), & 556(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRENS 307 MCEA Clinical Experience, Grades 4-8
2 cr. Undergraduate.
Clinical experience focusing on instructional practices in grades 4-8.
Prerequisites: jr st, admis to SOE, Currens 306(P), & 557(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRENS 310 Curriculum for the Pre and Early Adolescent
1-4 cr. Undergraduate.
The determination of curriculum and instructional approaches
appropriate for the pre and early adolescent age group.
Prerequisites: admis to School of Educ.
Current Offerings: http://uwm.edu/schedule

CURRENS 312 Models and Issues for Early Childhood Education
3 cr. Undergraduate.
Overview of content, methods, and issues pertaining to the organization
of early childhood programs for developmentally-diverse, monolingual
and bilingual learners.
Prerequisites: Currens 140(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
CURRINS 313 Teaching Economics in the Social Studies Curriculum
2 cr. Undergraduate.
Approaches to teaching economics in the social studies curriculum.
Latest research and teaching practices. A study of cooperative enterprises to meet Wisconsin's statutory requirement.
Prerequisites: Econ 103(P) or Econ 104(P).
Current Offerings: http://uwm.edu/schedule

CURRINS 314 Field Work I in Early Childhood Education - PreK/K
1 cr. Undergraduate.
Field experience with children in prekindergarten or kindergarten.
Planning and implementation of learning opportunities in the classroom.
Prerequisites: jr st, CurrIns 302(C)
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

CURRINS 316 Field Work in Secondary Reading in Content Areas, Grade 6-12:
3 cr. Undergraduate.
Field-based application of subject matter methods and instructional strategies in vocabulary development and comprehension, and assessment of student understanding of subject matter texts.
Prerequisites: jr st; admis to School of Educ; CurrIns 545 or equiv; & conc reg in subject matter methods course.
Course Rules: Cr/no cr only.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

CURRINS 320 Introduction to Critical Media Literacy
1 cr. Undergraduate.
Introduction to media literacy and applications of instructional technology to support student learning.
Prerequisites: admis to SOE or cons instr.
Current Offerings: http://uwm.edu/schedule

CURRINS 321 Introduction to the Teaching of Social Studies
1 cr. Undergraduate.
Methods and content introducing the teaching of social studies in secondary schools.
Prerequisites: jr st, admis to School of Educ.
Current Offerings: http://uwm.edu/schedule

CURRINS 323 Teaching of Social Studies:
1-4 cr. Undergraduate.
An examination of the purposes of social studies education in the schools with work in content selection, educational process and the nature of inquiry.
Prerequisites: jr st, admis to School of Educ.
Current Offerings: http://uwm.edu/schedule

CURRINS 325 Instructional Strategies for Using the Computer
1 cr. Undergraduate.
An examination of the instructional uses of computers. Focus on instructional strategies, software evaluation, and management of student learning.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

CURRINS 326 Environmental Education for Teachers
1 cr. Undergraduate.
Study of environmental issues and problems affecting local, state, and national resources. Fulfills WI DPI certification required for teachers.
Prerequisites: jr st, admis to School of Educ.
Current Offerings: http://uwm.edu/schedule

CURRINS 327 Teaching of Science in the Elementary School
1-4 cr. Undergraduate.
The objectives, materials, and techniques of teaching elementary science.
Prerequisites: jr st; admis to School of Educ; CurrIns 306(P).
Course Rules: May not be retaken for degree cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 328 Introduction to Teaching Science in Middle and High School
3 cr. Undergraduate.
Exploration of science teaching through developing some foundational teaching strategies and working with students in middle and high schools.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 330 Teaching of Mathematics: Early Childhood
3 cr. Undergraduate.
Methods and curriculum for facilitating the learning of mathematics with children ages 3-8. Emphasis on number concepts, problem solving, and intuitive geometry.
Prerequisites: jr st, admis to School of Educ, Math 176 with grade of C or better, & CurrIns 302(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 331 Teaching of Mathematics, Elementary School
3 cr. Undergraduate.
Methods and curriculum for teaching mathematics in grades 1-6. Emphasis on whole numbers, computing devices, fractions/decimals, geometry, measurement, statistics, and problem-solving.
Prerequisites: jr st; admis to SOE; CurrIns 306(C) & Math 176(P) with grade C or better; or cons instr
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 332 Teaching of Mathematics: Middle School
2-3 cr. Undergraduate.
Methods and curriculum for the teaching of mathematics in the middle school. Emphasis on advanced arithmetic topics, number theory, probability and statistics, geometry, measurement, and applications.
Prerequisites: jr st; admis to School of Educ; CurrIns 331(P).
Current Offerings: http://uwm.edu/schedule
CURRINS 333 Introduction to Teaching, Grades 1-8
3 cr. Undergraduate.
Introduction to the teaching profession in grades 1-8 in urban setting.
Overview of educational, multicultural, social and economic, and political issues that influence urban schools.
Prerequisites: Ed Psy 330(C) or cons instr.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 334 Teaching of Modern Foreign Languages
1-4 cr. Undergraduate.
The study of modern foreign language; application of teaching methods to the teaching of modern foreign languages.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Fall 2006, Fall 2005, Fall 2004, Fall 2003.
Current Offerings: http://uwm.edu/schedule

CURRINS 335 Instructional Computing I for Teachers
1 cr. Undergraduate.
Introduction to instructional computing for teachers with emphasis on primary grades.
Prerequisites: admis to Collaborative Teacher Ed Prog for Urban Communities.
Current Offerings: http://uwm.edu/schedule

CURRINS 336 Instructional Computing II for Teachers
1 cr. Undergraduate.
Instructional computing for teachers with emphasis on intermediate grades.
Prerequisites: admis to MCEA prog.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

CURRINS 337 Instructional Computing III for Teachers
1 cr. Undergraduate.
Instructional computing with emphasis on electronic portfolio development.
Prerequisites: admis to MCEA (Middle Childhood through Early Adolescence) program & Currlns 336(P).
Last Taught: Fall 2014, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

CURRINS 338 Teaching of Science in Early Childhood
3 cr. Undergraduate.
Objectives, materials, and teaching methods for science in Early Childhood.
Prerequisites: jr st, admis to School of Educ, Currlns 540(C), & 302(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 340 Field Experience in Preschool and Kindergarten Classrooms
2 cr. Undergraduate.
Field experience with children in prekindergarten/kindergarten. Focus on early literacy lesson planning.
Prerequisites: Currlns 240(P), 502(C) & admis to School of Educ; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 343 Teaching of Reading
1-4 cr. Undergraduate.
An introductory course in the teaching of reading. Involves fieldwork. Designed for students without teaching experience.
Prerequisites: admis to School of Educ or cons instr.
Last Taught: Fall 2012, Spring 2012, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

CURRINS 375 Using Technology for Teaching and Learning
1 cr. Undergraduate.
Introduce students to various forms of technology used in the PK-12 classrooms.
Prerequisites: none.
Course Rules: Jointly offered with and counts as repeat of ExcEduc 375.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

CURRINS 376 Understanding and Developing the edTPA
1 cr. Undergraduate.
In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries.
Prerequisites: none.
Course Rules: Jointly offered with and counts as repeat of ExcEduc 376.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 377 Wisconsin Foundations of Reading
1 cr. Undergraduate.
Foundational literacy assessment and instruction for diverse learners to prepare for the Wisconsin Foundations of Reading test. Focus on reading development grades PreK-8.
Prerequisites: none.
Course Rules: Jointly offered with and counts as repeat of ExcEduc 377. Credit/No Credit only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 378 Implementing the edTPA in a Clinical Setting
1-4 cr. Undergraduate.
In-depth overview of all components of the edTPA. Opportunities to engage in learning activities and assignments that will increase understandings of the edTPA requirements.
Prerequisites: none.
Course Rules: May be retaken for credit. Credit/no credit only.
Current Offerings: http://uwm.edu/schedule

CURRINS 380 Teaching Music in Elementary Schools I, II
2 cr. Undergraduate.
Methods, materials and observation of teaching vocal music in grades n-6. Includes junior participating experience.
Prerequisites: jr st & admis to school of educ or cons instr.
Current Offerings: http://uwm.edu/schedule
CURRINS 400 Field Work in Curriculum and Instruction: 1-6 cr. Undergraduate.
Credit value to be determined by faculty advisor and student, on the basis of 1) the nature of the field work project, 2) the amount of time the student will spend with the project, and 3) relevant evaluation criteria to be agreed upon in advance by the student and his advisor.
Prerequisites: jr st.
Course Rules: May be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 401 Seminar for Student Teaching 1 cr. Undergraduate.
Collaboration around solving problems encountered in urban teaching through a structured inquiry format with others involved in the student teaching experience.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

CURRINS 402 Student Teaching in Nursery and Kindergarten 6 cr. Undergraduate.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

CURRINS 404 Student Teaching in Primary Grades 6 cr. Undergraduate.
Prerequisites: jr st & admis to student teaching.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

CURRINS 406 Advanced MCEA Clinical Experience 4 cr. Undergraduate.
Advanced clinical experience focusing on instructional practices in grades 1-8.
Prerequisites: jr st, admis to SOE, & CurrIns 558(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 407 Student Teaching in Middle Childhood-Early Adolescence 5-9 cr. Undergraduate.
Full time student teaching in grades 1-8.
Prerequisites: jr st, admis to student teaching, CurrIns 471(C) & 406(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 415 Preliminary Student Teaching: 1-6 cr. Undergraduate/Graduate.
Initial Student Teaching Experience for EAA Licensure Candidates.
Prerequisites: jr st; eligibility for student teaching & dept req.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CURRINS 423 Student Teaching in Social Studies 10-12 cr. Undergraduate/Graduate.
Final Student Teaching Semester for EAA Social Studies Licensure Candidates.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: http://uwm.edu/schedule

CURRINS 427 Student Teaching in Science 2-6 cr. Undergraduate.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: http://uwm.edu/schedule

CURRINS 428 Student Teaching Science Seminar 3 cr. Undergraduate/Graduate.
Seminar to support secondary science student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.
Prerequisites: jr st; eligibility for student teaching.
Current Offerings: http://uwm.edu/schedule

CURRINS 430 Student Teaching in Computer Science 2-6 cr. Undergraduate.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: http://uwm.edu/schedule

CURRINS 431 Student Teaching in Mathematics 2-6 cr. Undergraduate.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: http://uwm.edu/schedule

CURRINS 432 Student Teaching Mathematics Seminar 3 cr. Undergraduate/Graduate.
Seminar to support secondary mathematics student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.
Prerequisites: jr st or grad st; eligibility for student teaching.
Current Offerings: http://uwm.edu/schedule

CURRINS 437 Student Teaching in World Language- Minor: 2-12 cr. Undergraduate.
Students pursuing a minor in a World Language: EC, MC-EA, EA-A, or EC-A.
Prerequisites: jr st; eligibility for student teaching & dept req.
Current Offerings: http://uwm.edu/schedule

CURRINS 438 Student Teaching in World Language: Early Childhood-Adelescence 2-12 cr. Undergraduate.
Students pursuing an EC-A major in a World Language.
Prerequisites: jr st; eligibility for student teaching & dept req.
Course Rules: May be retaken to max of 12 cr.
Current Offerings: http://uwm.edu/schedule

CURRINS 440 Field Experience in the Primary Grades 2 cr. Undergraduate.
Field experience with children in primary grades. Focus on literacy lesson planning.
Prerequisites: jr st, admis to School of Educ, CurrIns 340(P), & CurrIns 504(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
CURRINS 471 Professional Seminar 4: The Effective Urban Educator
2 cr. Undergraduate.
Integrated study of curriculum and classroom management to maximize children’s learning in grades 1-8.
Prerequisites: jr st, admits to SOE, & CurrIns 407(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 470 Professional Urban Teaching Linking Seminar
2 cr. Undergraduate.
Facilitates professional growth and development of teachers through structured inquiry, professional collaboration to solve problems in urban teaching, and personal assessment of progress using portfolios.
Prerequisites: jr st, admits to School of Educ.
Course Rules: May be retaken/chg in topic to max of 8 cr.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

CURRINS 447 Professional Seminar 3: Graduate Reading
1-4 cr. Undergraduate.
Prerequisite: jr st or grad st.
Course Rules: Many be retaken. May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CURRINS 445 Seminar in Language Education
3 cr. Undergraduate.
Provides student teachers in the Language Education program support to reflect on their student teaching experience and successfully complete the program portfolio.
Prerequisites: Admis to School of Educ; Currins 437(C), 438(C), 442(C), 443(C), or 444(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 444 Student Teaching in ESL- Early Childhood-Adolescence
2-6 cr. Undergraduate.
Students pursuing an EC-A ESL major.
Prerequisites: jr st; eligibility for student teaching & dept req.
Course Rules: May be retaken to 12 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 443 Student Teaching in English as a Second Language: Minor
2-12 cr. Undergraduate.
Students pursuing a minor in ESL EC, MCEA, EAA, or ECA.
Prerequisites: jr st, eligibility for student teaching & dept req.
Course Rules: May be retaken to 12 cr max.
Current Offerings: http://uwm.edu/schedule

CURRINS 442 Student Teaching in Bilingual Education
2-12 cr. Undergraduate.
Students pursuing a supplemental certification in bilingual: EC, MC-EA, EA-A, or EC-A.
Prerequisites: jr st & admis to student teaching.
Course Rules: May be retaken to 12 cr max.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 497 Study Abroad
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Fall 2016, Spring 2015, UWinteriM 2010.
Current Offerings: http://uwm.edu/schedule

CURRINS 499 Independent Reading:
1-4 cr. Undergraduate.
Prerequisites: jr st.
Course Rules: May be retaken.
Current Offerings: http://uwm.edu/schedule

CURRINS 500 Workshop in Curriculum and Instruction:
1-6 cr. Undergraduate/Graduate.
Development of teacher growth through problem solving, self-expression, group thinking, and individual study. Individuals or small groups work on problems growing out of their professional needs. Specific topics and any additional prerequisites will be announced in Timetable each time the course is offered.
Prerequisites: jr st or grad st.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CURRINS 501 Language Acquisition for Children of Diverse Backgrounds
3 cr. Undergraduate.
Examination of theories of language acquisition and development for children of diverse backgrounds. Teaching methods for developing literacy and biliteracy. Methods of sheltered language instruction.
Prerequisites: soph st, admis to School of Educ, Currins 312(P) & 240(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 502 Emergent Literacy and Biliteracy in the Early Childhood Classroom
3 cr. Undergraduate.
Study of literacy and biliteracy development of young children and teaching methods to support this development in the early childhood classroom.
Prerequisites: jr st, admis to School of Educ, Currins 501(P) & Currins 340(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 503 Assessment Issues in Language Education
3 cr. Undergraduate/Graduate.
Approaches to assessment of first and second language learning including rationale, traditional and alternative strategies, interpretation of results for placement, instruction, and program evaluation.
Prerequisites: jr st or instr cons; admis to School of Educ or grad st.
Current Offerings: http://uwm.edu/schedule
CURRINS 504 Methods for Biliteracy and Language Arts in Primary Grades
3 cr. Undergraduate.
Study of literacy and biliteracy development of young children and teaching methods to support this development in the primary grades.
Prerequisites: jr st, admis to SOE, Currins 502 (P), Currins 440(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 505 Collaborative Relationships with Families, Schools and Communities
3 cr. Undergraduate.
Theory and strategies for developing effective family-school relationships, with a focus on urban issues. Topics include: teacher-family communications, family education and support, community resources.
Prerequisites: jr st; admis to SOE; or cons instr.
Last Taught: Fall 2016, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 508 Language and Urban Schooling
3 cr. Undergraduate/Graduate.
General overview of the major issues in both first and second language acquisition, and the relevant implications for urban schooling.
Prerequisites: jr st & admis to School of Educ, or grad st; or cons instr.
Last Taught: Fall 2014, Spring 2013, Fall 2012, Spring 2012.
Current Offerings: http://uwm.edu/schedule

CURRINS 509 Reading and Social Welfare
1 cr. Undergraduate/Graduate.
Reading process, characteristics of effective reading programs and bibliotherapy as they relate to the work of school social workers.
Prerequisites: admis to Helen Bader School of Social Welfare.
Current Offerings: http://uwm.edu/schedule

CURRINS 510 Cooperative Strategies for Pre and Early Adolescents
1-3 cr. Undergraduate/Graduate.
Teaching and management strategies consistent with fostering productive learning environments for pre and early adolescents.
Prerequisites: admis to School of Educ, or grad st.
Course Rules: May be retaken to max of 3 cr.
Current Offerings: http://uwm.edu/schedule

CURRINS 511 Curriculum and Guidance for Social -Emotional Learning
3 cr. Undergraduate.
Study of classroom teaching strategies and curriculum and guidance methods designed to enhance children's social/emotional learning.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 512 Reflective Practice in Early Childhood Teaching and Learning
3 cr. Undergraduate.
Examination of connections between the urban context, ways of understanding diversity, and professional practice in early childhood classrooms, including implications of pedagogy, curriculum, and instruction.
Prerequisites: soph st, admis to SOE & Currins 312(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 514 Field Work II in Early Childhood Education-Primary
1 cr. Undergraduate.
Field experience with children in grades 1 through 3. Completion of assignments associated with Currins 504 while gaining practical experience in the classroom.
Prerequisites: jr st, Currins 502(P), & 504(C)
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CURRINS 516 Field Work in Middle School
2-6 cr. Undergraduate/Graduate.
Implementation of strategies learned in the 6-12 teacher education program
Prerequisites: admis to School of Educ or grad st.
Course Rules: May not be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 518 Science Methods I: Middle/Secondary Methods and Fieldwork
3-6 cr. Undergraduate/Graduate.
The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science.
Prerequisites: admis to School of Educ, or grad st.
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule

CURRINS 519 Science Methods II: Middle/Secondary Methods and Fieldwork
3-6 cr. Undergraduate/Graduate.
The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science. Includes fieldwork in middle/secondary school.
Prerequisites: admis to School of Educ or grad st.
Course Rules: May not be retaken for cr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CURRINS 520 Developing Mathematical Thinking in Young Children
3 cr. Undergraduate/Graduate.
Teaching and learning of mathematics, grades pre k-3. Emphasis on problem-solving, communication, developmentally appropriate experiences with whole numbers, fractions, geometry, measurement, and data analysis.
Prerequisites: jr st, teaching experience.
Current Offerings: http://uwm.edu/schedule

CURRINS 522 Economic Education
3 cr. Undergraduate/Graduate.
Approaches to teaching economic principles. Applications of economic reasoning to current problems. Curricular implications for school programs, grades K-12.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule
CURRINS 523 Current Issues and Practices in the Teaching of Social Studies
3 cr. Undergraduate/Graduate.
Examination of current issues in social studies curriculum reform. Emphasis on the latest research and teaching practices.
Prerequisites: CurrIns 323 or grad st.
Last Taught: Summer 1994.
Current Offerings: http://uwm.edu/schedule

CURRINS 525 Environmental Resources Workshop:
1-3 cr. Undergraduate/Graduate.
Methods and curriculum for teaching about environmental problems. Topic-specific prereq will be published in the Schedule of Classes
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Summer 2017, Fall 2016, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 527 Science in the Elementary School
3 cr. Undergraduate/Graduate.
Study of science curriculum materials; instructional procedures; analysis of pupil learning modes; experience with science equipment; teaching of science as inquiry; individual problems and projects.
Prerequisites: jr st & admis to School of Educ; or grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 530 Workshop in Computer Instruction in the Schools
3 cr. Undergraduate/Graduate.
Examination, construction and evaluation of computer extended instruction. Emphasis on participant development of curriculum materials and instructional procedures centered on pupil development.
Prerequisites: jr st; cons instr.
Course Rules: Not open to students who have cr in Ed Psy 530, which is identical to CurrIns 530.
Current Offerings: http://uwm.edu/schedule

CURRINS 531 Teaching of Computer Science
3 cr. Undergraduate/Graduate.
Methods and curriculum for the teaching of computer science in the secondary schools. A brief introduction to management of a computer laboratory.
Prerequisites: jr st & admis to School of Educ & CompSci 351; or grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 532 Teaching of Mathematics: Secondary
3 cr. Undergraduate/Graduate.
Methods and curriculum for the teaching of mathematics in middle and high schools.
Prerequisites: jr st; admis to School of Educ.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CURRINS 534 Instructional Strategies in Early Childhood Education
3 cr. Undergraduate.
Study of instructional strategies and practices in the early childhood classroom to promote effective teaching and engaged learning for all children.
Prerequisites: jr st & admis to SOE; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 535 Methods and Techniques in Affective Education
1-3 cr. Undergraduate/Graduate.
Basic principles and practical techniques for instruction in the affective domain are modeled and practiced. Although process oriented, the course does not neglect theoretical frameworks.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

CURRINS 536 Literacy 1: Assessing and Teaching Early Literacy
3 cr. Undergraduate/Graduate.
Addresses early reading and language arts assessment and instruction with diverse learners. Includes concurrent clinical experience.
Prerequisites: jr st, CurrIns 306(C) & admis to SOE, or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 537 Literacy 2: Assessing and Teaching Literacy through Early Adolescence
3 cr. Undergraduate/Graduate.
The role of reading and language arts assessment and instruction with diverse learners in 1st-8th grade classrooms with particular emphasis on comprehension, vocabulary, and disciplinary literacy.
Prerequisites: jr st & admis to SOE, or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 538 Literacy 3: Introduction to New Literacies
3 cr. Undergraduate/Graduate.
Examines research based processes for literacy instruction, effects of and approaches for the use of technology on literacy development.
Prerequisites: sr st, admis to SOE & CurrIns 537(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 540 Advanced Field Experience in Early Childhood Education
3-6 cr. Undergraduate.
Advanced field experience, culmination of pre-student teaching experiences.
Prerequisites: sr st, admis to SOE & CurrIns 440(P); or cons instr.
Course Rules: May be repeated for 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 541 Principles and Methods of Teaching ESL
3 cr. Undergraduate/Graduate.
Techniques of introducing ESL at the K-12 level. Teaching of basic language skills, especially listening comprehension and speaking. Curriculum materials and current literature in ESL. Micro teaching provided.
Prerequisites: jr st and admis to SOE; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 542 History and Politics of Second Language Education
3 cr. Undergraduate/Graduate.
General overview of the history, politics, legal and social contexts of language education in the United States today.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule
CURRINS 543 Developing Biliteracy
3 cr. Undergraduate/Graduate.
Stresses the practical application of theory and research on language development in a bilingual setting. The development of primary language skills is emphasized.
Prerequisites: jr st or cons instr; admis to School of Educ, or grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 544 Improving the Teaching of Reading:
1-3 cr. Undergraduate/Graduate.
Focuses on instructional problems of teachers in teaching developmental reading. Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st; teaching experience.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

CURRINS 545 Reading in the Content Areas: Middle, Junior, and Senior High School
3 cr. Undergraduate/Graduate.
Survey of reading process and developmental reading in the middle, junior and senior high school. Emphasis on application of instructional techniques relating the use of reading within subject matter fields.
Prerequisites: jr st; admis to School of Educ or grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 546 Language, Content, and Comprehensible Input
3 cr. Undergraduate/Graduate.
Theories and methods for delivering content to second language learners. Models of sheltered and learning strategies instruction will be explored.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 547 Curricular Applications of the Internet
3 cr. Undergraduate/Graduate.
Analysis and construction of internet based instruction focusing on the use of interactive media in grades 1-12.
Prerequisites: jr st & admis to School of Educ, or grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 550 Using Children's Literature to Explore Latin Am/Latino Cultural Heritage
3 cr. Undergraduate/Graduate.
Using children's books that explore Latin American/Latino cultural heritage.
Prerequisites: jr st.
Course Rules: Counts as repeat of CurrIns 579 with similar topic.
Last Taught: Summer 2013.
Current Offerings: http://uwm.edu/schedule

CURRINS 551 Teaching of Language Arts
1-4 cr. Undergraduate/Graduate.
Survey of curriculum, methods and materials in skills and expressive areas of language, linking theory with practical instructional strategies in both preschool and elementary settings.
Prerequisites: jr st & admis to School of Educ; or grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 552 Teaching Reading, Grades 1-3
3 cr. Undergraduate/Graduate.
Foundations of reading and instructional strategies which support the development of literacy learning in the primary grades (grades 1-3) with concurrent teaching field experience.
Prerequisites: jr st, Admis to School of Educ; or grad st.
Course Rules: Counts as repeat of 3 cr of CurrIns 506.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Spring 2012.
Current Offerings: http://uwm.edu/schedule

CURRINS 553 Teaching Language Arts and Children's Literature, Grades 1-3
3 cr. Undergraduate/Graduate.
Language arts instruction and children's literature in the middle childhood grades (grades 1-3) with concurrent teaching field experience.
Prerequisites: jr st; admis to School of Educ; or grad st.
Course Rules: Counts as repeat of 3 cr of CurrIns 506.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Spring 2012.
Current Offerings: http://uwm.edu/schedule

CURRINS 554 Teaching Reading and Adolescent Literature, Grades 4-8
3 cr. Undergraduate/Graduate.
Reading instruction and literature for early adolescents, grades 4-8 with concurrent teaching field experience.
Prerequisites: jr st; admis to School of Educ; CurrIns 552(P); or grad st.
Course Rules: Counts as repeat of 3 cr of CurrIns 507.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

CURRINS 555 Teaching Language Arts, Grades 4-8
3 cr. Undergraduate/Graduate.
Language arts instruction in the early adolescent grades, grades 4-8, with concurrent teaching field experience.
Prerequisites: jr st; admis to School of Educ; CurrIns 553(P); or grad st.
Course Rules: Counts as repeat of 3 cr of CurrIns 507.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

CURRINS 556 Professional Seminar 1: Foundations of Curriculum and Instruction
3 cr. Undergraduate/Graduate.
Philosophies of curriculum and instructional models to meet the developmental needs of children in urban contexts.
Prerequisites: jr st, admis to SOE, Ed Psy 325(C), CurrIns 306(C), & 536(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
CURRINS 557 Professional Seminar 2: Classroom Management: Theory, Practice and Context
3 cr. Undergraduate/Graduate.
Addresses the theoretical frameworks, models and goals in classroom management practices in grades 1-8.
Prerequisites: jr st, admis to SOE, CurrIns 556(P) & 307(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 558 Professional Seminar 3: Building Learning Communities
3 cr. Undergraduate/Graduate.
Exploration and application of strategies that build positive learning climates/communities in urban classrooms in grades 1-8.
Prerequisites: jr st, admis to SOE, CurrIns 557(P) & 406(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 560 Improving Mathematics Teaching and Learning:
1-3 cr. Undergraduate/Graduate.
Focuses on instructional and curricular issues in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st or grad st.
Course Rules: May be retaken w/chg in topic to 18 cr max.
Current Offerings: http://uwm.edu/schedule

CURRINS 561 Issues in Elementary and Middle School Mathematics
3 cr. Undergraduate/Graduate.
Introduction to the teaching and learning of mathematics at the elementary and middle school levels. Emphasis on curriculum, instructional strategies, and assessment.
Prerequisites: jr st; admis to School of Educ or cons instr or grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 562 Secondary School Mathematics Issues for Exceptional Education Teachers
1 cr. Undergraduate/Graduate.
Issues in secondary mathematics curriculum, instructional strategies, and assessment for teachers of students with special needs.
Prerequisites: jr st, admis to exceduc middle/high cert prog.
Current Offerings: http://uwm.edu/schedule

CURRINS 565 Pedagogy Labs:
1 cr. Undergraduate.
Students concurrently or previously enrolled in content-specific courses will study issues of teaching pedagogy related to that content.
Prerequisites: cons instr.
Course Rules: May be retaken w/chg in topic to 6 credit max.
Last Taught: Fall 2012, Summer 2012, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

CURRINS 566 Pedagogy Labs - Linking English Content and Processes with Pedagogy
1 cr. Undergraduate.
Examines the instructional implications for English content and processes and is taken concurrently with English 201.
Prerequisites: jr st.
Course Rules: Counts as repeat of CurrIns 565 with similar topic.
Current Offerings: http://uwm.edu/schedule

CURRINS 567 Pedagogy Labs - Linking History Content and Processes with Pedagogy
1 cr. Undergraduate.
Examines the instructional implications for history content and processes and is taken concurrently with Hist 152.
Prerequisites: jr st.
Course Rules: Counts as repeat of CurrIns 565 with similar topic.
Current Offerings: http://uwm.edu/schedule

CURRINS 569 Pedagogy Labs - Linking Mathematics Content and Processes with Pedagogy
1 cr. Undergraduate.
Examines connections between the content material of mathematics courses Math 175/176/275/276/277/278 and K-12 pedagogical practices. Taken concurrently with one of the courses listed.
Prerequisites: one of the following: 175(C), 176(C), 275(C), 276(C), 277(C) or 278(C).
Current Offerings: http://uwm.edu/schedule

CURRINS 570 Improving Science Teaching and Learning:
1-3 cr. Undergraduate/Graduate.
Focuses on instructional and curricular issues in science. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, teaching experience.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

CURRINS 579 Current Topics in Curriculum and Instruction:
1-3 cr. Undergraduate/Graduate.
The specific topic will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr including cr earned under CurrIns 779.
Current Offerings: http://uwm.edu/schedule

CURRINS 580 Mathematics Education:
1-3 cr. Undergraduate/Graduate.
Analysis of school and classroom practices in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st or grad st.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2017, Fall 2016, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 585 Best Practices in Early Childhood for Children and Families
3 cr. Undergraduate/Graduate.
Child care as a family-friendly community including integration of child growth and development principles into all aspects of the program.
Prerequisites: jr st; admis to child care director's prog or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
CURRINS 593 Supervision of Student Teaching
1 cr. Undergraduate/Graduate.
Roles and responsibilities of the supervising teacher in planning, guidance and evaluation of the learning experiences of prospective teachers.
Prerequisites: current teacher certification.
Last Taught: Summer 2017, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 601 Early Childhood Seminar in Student Teaching
3 cr. Undergraduate.
Collaboration around challenges encountered in urban student teaching through a structured inquiry format with peers.
Prerequisites: sr st; admis to SOE & CURRINS 640(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 602 Early Childhood Education
1-4 cr. Undergraduate/Graduate.
Basic principles of curriculum planning for young children. Education in nursery schools, day care centers, kindergartens and primary grades. A study of the materials of instruction and techniques of teaching at this level.
Prerequisites: jr st.
Last Taught: Summer 2017, Fall 2016, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 612 Collaborations for Teachers with Families, Schools, and Communities
3 cr. Undergraduate/Graduate.
Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.
Prerequisites: jr st; admis to SOE; or cons instr.
Current Offerings: http://uwm.edu/schedule

CURRINS 624 Instructional Trajectories for Fraction Concepts and Operations
3 cr. Undergraduate/Graduate.
Examination of mathematical trajectories for teaching fractions with focus on evidence-based instructional and assessment strategies and analysis of curriculum.
Prerequisites: jr st; teaching experience, or cons instr.
Last Taught: Summer 2017, Summer 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 625 Principles and Practices of Teaching Geometry and Geometric Thinking
3 cr. Undergraduate/Graduate.
Examination of instructional sequences for geometry and analysis of teaching strategies for developing and assessing students’ geometric thought.
Prerequisites: jr st; teaching experience
Course Rules: Counts as repeat of CurrIns 560 with topic Geometry and Geometric Thinking.
Last Taught: Summer 2016, Fall 2005.
Current Offerings: http://uwm.edu/schedule

CURRINS 626 Principles and Practices of Teaching Algebraic Reasoning
3 cr. Undergraduate/Graduate.
Examination of instructional trajectories for algebra and analysis of teaching strategies for developing and assessing students’ algebraic reasoning.
Prerequisites: jr st; teaching experience.
Current Offerings: http://uwm.edu/schedule

CURRINS 629 Change and Change Strategies in Education
1-4 cr. Undergraduate/Graduate.
This course will involve students in an exploration of individual groups and institutions as these elements relate to change processes in education. Models and strategies will be studied and applied to change problems.
Prerequisites: jr st; teaching experience.
Course Rules: May be retaken to a 4 cr max.
Current Offerings: http://uwm.edu/schedule

CURRINS 637 World Language Methods and Materials
3 cr. Undergraduate/Graduate.
Basic principles and practical instructional techniques intended to prepare teachers with experiences and background to teach world languages.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2013.
Current Offerings: http://uwm.edu/schedule

CURRINS 639 Critical Issues and Methods in World Language Education
3 cr. Undergraduate/Graduate.
Advanced preparation for teachers of world languages that will equip them for teaching world languages to students from early childhood through adolescence.
Prerequisites: jr st, CurrIns 637(P) or equiv, or cons instr.
Current Offerings: http://uwm.edu/schedule

CURRINS 640 Student Teaching in Early Childhood
6-12 cr. Undergraduate.
Full semester experience in an early childhood classroom.
Prerequisites: sr st; admis to SOE; CurrIns 601(C); CurrIns 540(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 643 Balanced Literacy Instruction in the Elementary School
1-3 cr. Undergraduate/Graduate.
Study and implementation of assessment and teaching strategies for balanced literacy instruction including phonics.
Prerequisites: jr st.
Course Rules: May be retaken to 6 cr max. Not open for cr to students with CurrIns 343(ER) or equiv.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule
CURRINS 644 Enhancing Literacy Learning for Diverse Learners: 3 cr. Undergraduate/Graduate.
Teaching reading and writing to diverse learners.
Prerequisites: currently teaching with at least 2 yrs experience; cons instr.
Course Rules: Jointly offered with & subtitles count as repeat of same title of ExcEduc 644. CurrIns 644 & ExcEduc 644 may be retaken w/chg in topic to combined 9 cr max.
Current Offerings: http://uwm.edu/schedule

CURRINS 646 University of Wisconsin System Reading Research Symposium
1-3 cr. Undergraduate/Graduate.
Updates students on most recent reading research. Students are required to attend the two-day symposium.
Prerequisites: jr st.
Course Rules: May be retaken for credit.
Current Offerings: http://uwm.edu/schedule

CURRINS 647 Early Reading Empowerment: Part 1
3 cr. Undergraduate/Graduate.
First semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.
Prerequisites: currently teaching, at least 2 years teaching experience, cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CURRINS 648 Early Reading Empowerment: Part 2
3 cr. Undergraduate/Graduate.
Second semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.
Prerequisites: CurrIns 647(P), currently teaching, at least 2 years teaching experience, cons instr.
Current Offerings: http://uwm.edu/schedule

CURRINS 649 Children's Literature
1-4 cr. Undergraduate/Graduate.
To acq students with the wide range of good books for children and to provide wide reading experiences in children's literature; evaluation and use of current materials.
Prerequisites: jr st & admis to School of Educ; or grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 650 Reading Interests of Adolescents
3 cr. Undergraduate/Graduate.
Recently published literature for adolescents - types, themes, issues related to school programs.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 651 Literature for the Young Child
3 cr. Undergraduate.
Examines literature with young children to develop verbal fluency, aesthetic awareness and interest in reading. Rationales, specific instructional strategies, illustration styles and genres are discussed.
Prerequisites: soph st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 653 Children's Literature: The Past Five Years
3 cr. Undergraduate/Graduate.
Analysis of children's books published in the past five years. Arranged by genres, this course considers issues, trends, evaluative criteria, and classroom uses of books.
Prerequisites: jr st; CurrIns 649 or equiv.
Current Offerings: http://uwm.edu/schedule

CURRINS 655 Applied Educational Linguistics
3 cr. Undergraduate/Graduate.
Explanation of linguistic principles which can be applied to language-based activities in the classroom and which can be useful in solving language-learning problems.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2018, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 657 Approaches to Teaching and Assessing Texts in the Secondary Schools
3 cr. Undergraduate/Graduate.
Pedagogy and assessment of literature and other texts and their classroom applications: canonical and diverse literary selections; literary critical theory.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

CURRINS 658 Teaching and Assessing English
3 cr. Undergraduate/Graduate.
The objectives, materials, techniques and assessments of teaching English. Covers language and writing methods.
Prerequisites: jr st, Admis to SOE & CurrIns 657(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CURRINS 659 Teaching and Assessing Grammar to Enrich Writing
2-3 cr. Undergraduate/Graduate.
Current research about teaching grammar, and the historical, social, and political consequences associated with various approaches to grammar instruction and assessment.
Prerequisites: jr st.
Course Rules: English Educ Cert students enroll for 2 cr; other Cert students enroll for 3 cr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
CURRINS 664 Dramatizing Literature in Elementary Classrooms
1-4 cr. Undergraduate/Graduate.
Nature of creativity in children; basic principles of informal playmaking, including movement, mime, characterization, dialogue, and conflict. Using children's ideas to develop literature-based dramatizations.
Prerequisites: jr st.
Current Offerings: [URL]

CURRINS 675 Making Schools Work: Promoting Positive Change in Chronic Problem Behavior
3 cr. Undergraduate/Graduate.
Methods of applying system theory, cybernetics, and communication theory concepts in classrooms and schools to help solve recurring interpersonal problems and improve educational effectiveness.
Prerequisites: grad st or cons instr.
Current Offerings: [URL]

CURRINS 700 Field Work in Schools, Agencies and Institutions:
2-6 cr. Graduate.
Supervised field experience planned in conference with the student's major professor. An evaluation report required.
Prerequisites: grad st & cons instr.
Current Offerings: [URL]

CURRINS 701 Curriculum Planning and Ideologies
3 cr. Graduate.
The concept of elementary and secondary curriculum in modern American education. Foundation principles and major objectives.
Prerequisites: grad st.
Current Offerings: [URL]

CURRINS 702 Curriculum Problems and Practices in Early Childhood Education
4 cr. Graduate.
Current trends in the education of children in day care centers, nursery schools, kindergartens and primary grades. Opportunities for study of individual problems of teachers at this level.
Prerequisites: grad st.
Current Offerings: [URL]

CURRINS 703 Advanced Curriculum in Early Childhood Education
4 cr. Graduate.
Theoretical foundations of curriculum planning in early childhood education programs.
Prerequisites: grad st
Course Rules: Counts as repeat of CurrIns 779 with same topic.
Last Taught: Fall 2014, Fall 2012, Fall 2010.
Current Offerings: [URL]

CURRINS 705 Research in Schools and Communities
3 cr. Graduate.
Overview of content and inquiry in curriculum and instruction.
Prerequisites: grad st.
Current Offerings: [URL]

CURRINS 710 Curriculum for Early Adolescents
2-3 cr. Graduate.
Functions and purposes of schools for early adolescents; historical developments; types of curricula; instructional methods and techniques; recent developments and trends.
Prerequisites: grad st.
Current Offerings: [URL]

CURRINS 714 Analysis of Instruction to Improve Teaching and Learning
3 cr. Graduate.
Study of teaching behaviors and models. Examination of factors involved in deciding how to teach. Opportunity to analyze teaching and clarify personal teaching preferences.
Prerequisites: grad st.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: [URL]

CURRINS 715 Guiding Instructional Improvement
3 cr. Graduate.
Methods of applying the knowledge of instruction to solve instructional problems; ways of working with teachers to improve the quality of instructional behavior, styles and strategies.
Prerequisites: grad st; CurrIns 714 or cons dept.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [URL]

CURRINS 716 Teaching in Urban & Diverse Communities
1-4 cr. Graduate.
Teaching in a culturally pluralistic setting. Examination of how the law, school policy and equity issues affect curriculum and instructional practices.
Prerequisites: grad st.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: [URL]

CURRINS 720 Curriculum and Standards for School Mathematics
3 cr. Graduate.
Overview of historical and current perspectives on curricular reforms and the standards movement in mathematics education.
Prerequisites: grad st
Course Rules: Counts as repeat of CurrIns 579 with topic, 'National Mathematics Standards.'
Last Taught: Spring 2018, Fall 2017, Fall 2015.
Current Offerings: [URL]

CURRINS 721 Advanced Problems in the Teaching of Social Studies
3 cr. Graduate.
For teachers with experience who wish to improve their understanding and skill; equal emphasis on theory and practice.
Prerequisites: grad st & cons instr.
Current Offerings: [URL]

CURRINS 724 Advanced Problems in Science Education
3 cr. Graduate.
Study of current issues and problems related to science instruction and curriculum developments, course planning, analysis of learning in the science classroom, techniques of evaluation, review of research in science education.
Prerequisites: grad st & science teaching experience.
Current Offerings: [URL]
CURRINS 725 Improving Teaching and Learning with Classroom-Based Assessments
3 cr. Graduate.
Development and implementation of classroom-based assessment instruments within existing large-scale state and district accountability systems.
Prerequisites: grad st.
Course Rules: Jointly offered w/ & counts as repeat of Ed Psy 725.
Current Offerings: http://uwm.edu/schedule

CURRINS 729 Qualitative Research and Field Studies in Educational Settings
3 cr. Graduate.
Examination of qualitative techniques as applied to educational research and evaluation in schools, classrooms, and other educational settings.
Prerequisites: grad st; Ed Psy 528(P) or equiv.
Course Rules: Not open to students who have cr in Ad Ldsp 729 which is identical to Curins 729.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CURRINS 730 Mathematics in Elementary Education
3 cr. Graduate.
Prerequisites: grad st; teaching experience.
Current Offerings: http://uwm.edu/schedule

CURRINS 731 Mathematics in the Secondary School
3 cr. Graduate.
Current trends in curriculum and instruction. Opportunity to work on special problems.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 734 Advanced Problems in the Teaching of Foreign Languages
3 cr. Graduate.
Close re-examination of instructional practices and the soundness of the underlying principles in a period of transition regarding aims, methods, content and psychological aspects of foreign language learning. The teaching of culture and other timely material in changing curricular expectations.
Prerequisites: grad st & teaching experience.
Last Taught: Fall 2006, Fall 2005, Fall 2001, Fall 1998.
Current Offerings: http://uwm.edu/schedule

CURRINS 740 UWM Writing Project: Teachers as Writers
3 cr. Graduate.
Develop self-awareness as writer and compare understanding to theories of writing instruction. Analyze writing opportunities and reflect on experience in relation to classroom practice.
Prerequisites: grad st; acceptance into UWM Writing Project.
Course Rules: Counts as repeat of Currins 779 w/ same topic. Concurrent enrollment in Currins 741 required.
Current Offerings: http://uwm.edu/schedule

CURRINS 741 UWM Writing Project: Teacher Leadership in Writing
3 cr. Graduate.
Analyze theory and research about writing in classrooms. Synthesize and evaluate various methods that enhance writing instruction leading to developing teacher as leader in writing.
Prerequisites: grad st; acceptance into UWM Writing Project.
Course Rules: Concurrent enrollment in Currins 740 required.
Current Offerings: http://uwm.edu/schedule

CURRINS 742 UWM Writing Project:
1-9 cr. Graduate.
Develop as a writer. Analyze theory and research about writing in classrooms. Synthesize and evaluate various methods that enhance writing instruction leading to developing teacher as leader in writing.
Prerequisites: grad st., acceptance into UWM Writing Project, retakable with change in topic to 9 cr max, retakable with same topic to 6 cr max.
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule

CURRINS 744 Secondary Developmental Reading Practicum
2-4 cr. Graduate.
Analysis of developmental reading methods, assessment devices for secondary students, supervised classroom teaching practicum of secondary students.
Prerequisites: grad st; Currins 747 & 545.
Current Offerings: http://uwm.edu/schedule

CURRINS 746 Advanced Reading Education
3 cr. Graduate.
Analysis and evaluation of research on reading processes, including psycholinguistic perspectives. Evaluation of reading models. Application to current approaches to teaching reading emphasized.
Prerequisites: grad st; Currins 643(P) or equiv.
Current Offerings: http://uwm.edu/schedule

CURRINS 747 Reading Assessment and Instruction with Practicum: K-12 Part I
3 cr. Graduate.
Analysis of the factors contributing to reading difficulty; use of formal and informal assessments with implications for instruction. Includes work with student who have reading difficulties.
Prerequisites: grad st; Currins 504, 506, 544, 545 or equiv; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CURRINS 748 Reading Assessment and Instruction with Practicum, K-12: Part II
3 cr. Graduate.
Diagnosis, teaching, curriculum planning and materials for disabled readers. Students will work with small groups of elementary age disabled readers in a supervised tutorial situation.
Prerequisites: grad st; Currins 747(P).
Current Offerings: http://uwm.edu/schedule
CURRINS 751 Language Arts in the Elementary School
3 cr. Graduate.
Survey and critical appraisal of programs, practices and trends, emphasis
on oral and written expression including spelling and handwriting;
specific study of individual problems.
Prerequisites: grad st.
Last Taught: Fall 1986.
Current Offerings: http://uwm.edu/schedule

CURRINS 753 Teaching Language and Composition
3 cr. Graduate.
Consideration of problems, curricular materials and teaching procedures
in the areas of language, grammar and written composition, with
emphasis on language history and applications of linguistic knowledge.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 754 Teaching Literature
3 cr. Graduate.
Curriculum materials, methods of organization and approaches to the
study of literature, with attention to problems of teaching prose fiction
and nonfiction, drama and poetry. Micro teaching used.
Prerequisites: teaching experience & grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 761 Mathematics Instructional Leadership
3 cr. Graduate.
Study and development of teacher leadership for supporting effective
mathematics instruction and high-leverage mathematics teaching
practices through collaborative cultures and content-focused coaching.
Prerequisites: grad st.
Last Taught: Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 774 College Teaching
3 cr. Graduate.
Analyzes curricular issues and instructional practices in college and adult
programs. Research on youth, college influences and adult change will be
reviewed.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 779 Current Topics in Curriculum and Instruction:
1-3 cr. Graduate.
Specific topic announced in schedule of classes each time course is
offered.
Prerequisites: grad st, cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr,
including grad cr earned under CurrIns 579.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Fall 2009.
Current Offerings: http://uwm.edu/schedule

CURRINS 779 Independent Reading:
1-3 cr. Graduate.
Prerequisites: enrollment in master's prog.
Current Offerings: http://uwm.edu/schedule

CURRINS 800 Master's Seminar in Curriculum and Instruction
3 cr. Graduate.
Required for all curriculum and instruction students. Students develop
and defend a seminar project. Master's examination is in conjunction
with the seminar.
Prerequisites: grad st; 27 grad cr; cons dept; cons advisor
Current Offerings: http://uwm.edu/schedule

CURRINS 801 Urban Education: Doctoral Seminar in Curriculum &
Instruction
3 cr. Graduate.
Curriculum and instruction goals, programs, and practices in urban
schools, as analyzed in varying critical perspectives.
Prerequisites: admis to PhD prog; Educ 701(P).
Current Offerings: http://uwm.edu/schedule

CURRINS 802 Recent Research in the Field of Early Childhood Education
4 cr. Graduate.
A study of recent research in the area of early childhood education and in
child development at these levels. Practical applications to the programs
of day care centers, nursery schools, kindergartens and primary grades
will be made.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CURRINS 803 Reflective Practice: Urban Early Childhood Teaching
4 cr. Graduate.
The relationships between teaching practice and the socio-cultural-
historical contexts of teaching; application to teaching through reflective
analysis.
Prerequisites: grad st
Last Taught: Fall 2015, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

CURRINS 805 History Of Curriculum Development
3 cr. Graduate.
A study of the history of curriculum development in american education
including major issues, movements and figures.
Prerequisites: grad st; Ed Pol 650; cons dept.
Current Offerings: http://uwm.edu/schedule

CURRINS 813 Instructional Research and Theory
3 cr. Graduate.
Examination of current research and theory concerning teacher behavior
and its antecedents and consequences. Implications for teaching teacher
training, evaluation of teaching, and classroom research.
Prerequisites: grad st; CurrIns 714 or cons dept.
Current Offerings: http://uwm.edu/schedule

CURRINS 814 Seminar in Instruction
3 cr. Graduate.
Individual instruction problems are examined. Emphasis is placed upon
developing and carrying out a research project dealing with instruction.
Prerequisites: grad st; CurrIns 714 or cons dept.
Current Offerings: http://uwm.edu/schedule
CURRINS 816 Curriculum Designs for Urban Schools
3 cr. Graduate.
Examination of the problems of urban schools and the implications of these problems for the design of school curriculum.
Prerequisites: grad st; CurrIns 701 or 716; or cons instr.
Current Offerings: http://uwm.edu/schedule

CURRINS 819 Theory and Design of Curriculum
3 cr. Graduate.
Examination of the essential operations of curriculum from the point of view of common curriculum patterns, development of the theoretical considerations underlying the application of these operations to curriculum planning and development.
Prerequisites: grad st; CurrIns 701(P).
Current Offerings: http://uwm.edu/schedule

CURRINS 829 Advanced Qualitative Research Techniques for Education Settings
3 cr. Graduate.
Advanced examination of qualitative research techniques in three areas: conceptual design; data collection methods; and data analysis and reporting.
Prerequisites: Ad Ldsp 729 (CurrIns 729) or cons instr.
Course Rules: Not open to students who have cr in Ad Ldsp 829, which is identical to CurrIns 829.
Current Offerings: http://uwm.edu/schedule

CURRINS 830 Seminar in Elementary School Mathematics Education
3 cr. Graduate.
Critical issues in arithmetic instruction. Survey of research studies and their implications for instruction. Development and discussion of individual research problems.
Prerequisites: grad st; cons dept.
Current Offerings: http://uwm.edu/schedule

CURRINS 839 Practicum in Writing from Qualitative Research for Educational Settings
3 cr. Graduate.
Practice in writing from qualitative research data and analysis of qualitative text.
Prerequisites: grad st; Ad Ldsp or CurrIns 729(P) & 829(P).
Course Rules: Not open to students who have cr in Ad Ldsp 839 which is identical to CurrIns 839.
Current Offerings: http://uwm.edu/schedule

CURRINS 846 Seminar in Developmental Reading
3 cr. Graduate.
Topics will vary. In-depth study of implications of trends and research for improving instruction and k-12 curriculum planning. Specific topic and any additional prerequisites will be announced in schedule of classes each time course is offered.
Prerequisites: grad st; CurrIns 746.
Course Rules: May be retaken with change in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

CURRINS 849 Guiding and Directing School Reading Programs K-12
3 cr. Graduate.
The role of the Reading Specialist/Literacy Coach in guiding and directing K-12 reading programs and supervising literacy instruction. Required for WI Reading Specialist license.
Prerequisites: grad st; CurrIns 747 & 748 (P); CurrIns 646 (P) or cons instr.
Last Taught: Summer 2017, Fall 2015, Fall 2013, Fall 2009.
Current Offerings: http://uwm.edu/schedule

CURRINS 861 Seminar in Mathematics Urban Education
3 cr. Graduate.
Focus on issues of equity and access to high-quality mathematics teaching, curriculum, and assessment for students with diverse cultural, linguistic, and economic backgrounds.
Prerequisites: grad st
Last Taught: Spring 2015.
Current Offerings: http://uwm.edu/schedule

CURRINS 864 Integrating Mathematics Education Research into Curriculum and Instruction
3 cr. Graduate.
Using results from research on mathematics teaching and learning to shape teaching practice, including impacts on curriculum development, implementation, and pedagogical practice.
Prerequisites: grad st
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 865 Mathematics Program Design and Development
3 cr. Graduate.
Research-based practices for guiding and developing school and district mathematics curriculum and programs. Inquiry into problems of practice in mathematics education.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

CURRINS 870 Research Practicum
1-3 cr. Graduate.
Independent research practicum. Application of qualitative and quantitative research methods to conduct a small-scale research study. Develop research questions, collect and analyze data, and report findings.
Prerequisites: grad st
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

CURRINS 880 Proseminar in Urban Education: Curriculum and Instruction
2 cr. Graduate.
An examination of selected problems and issues in urban education.
Prerequisites: grad st; admis to urban educ doctoral prog.
Current Offerings: http://uwm.edu/schedule

CURRINS 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule
CURRINS 890 Master’s Research or Thesis
3-6 cr. Graduate.
Research or thesis work for students in the master’s program in curriculum and instruction.
Prerequisites: grad st; cons advisor.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CURRINS 900 Seminar in Curriculum Construction
3 cr. Graduate.
Opportunity to develop curriculum materials or work on individual problems.
Prerequisites: grad st; cons dept.
Current Offerings: http://uwm.edu/schedule

CURRINS 990 Doctoral Research or Thesis
1-3 cr. Graduate.
Prerequisites: admis to doctoral prog.
Current Offerings: http://uwm.edu/schedule

CURRINS 993 Seminar in the Pre-Service and In-Service Education of Teachers
3 cr. Graduate.
For advanced students interested in problems of teacher education.
Prerequisites: grad st; cons dept.
Current Offerings: http://uwm.edu/schedule

CURRINS 999 Independent Reading
1-3 cr. Graduate.
For the benefit of doctoral students unable to secure needed content in regular courses.
Prerequisites: post-masters or doctoral st; cons instr.
Last Taught: Spring 2018, Fall 2017, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

Exceptional Education Courses
EXCEDUC 200 Fieldwork in Exceptional Education:
1-4 cr. Undergraduate.
Field experience designed to allow pre-education students to participate and observe in exceptional education setting.
Prerequisites: none.
Course Rules: Cr/no cr only. Fieldwork may not be dropped after the second week of classes. May be retaken w/chg in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: cons instr; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 299 Independent Reading
1-3 cr. Undergraduate.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 300 The Exceptional Individual
3 cr. Undergraduate.
An introduction to etiology, historic background, current service provisions, and issues and trends related to individuals with learning, sensory, behavioral, or physical handicapping conditions.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 301 American Sign Language I
3 cr. Undergraduate.
This course will introduce basic American Sign Language structure and study of deaf culture. Basic fingerspelling principles are also introduced.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 302 American Sign Language II
3 cr. Undergraduate.
This course will continue skills in American Sign Language, fingerspelling and the study of deaf culture.
Prerequisites: C or better in ExcEduc 301(P) or Level 1 ASLPI score.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 303 American Sign Language III
3 cr. Undergraduate.
Focus is on the development of intermediate level skills in American Sign Language, its structure and study of deaf culture.
Prerequisites: C or better in ExcEduc 302(P) or Level 1+ ASLPI score
Current Offerings: http://uwm.edu/schedule

EXCEDUC 304 American Sign Language IV
3 cr. Undergraduate.
Focus on the continuing development of intermediate level skills in American Sign Language, its structure and the study of deaf culture.
Prerequisites: C or better in ExcEduc 303(P) or Level 2 ASLPI score.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 305 American Sign Language V
3 cr. Undergraduate.
Advanced American Sign Language focusing on classifiers, fingerspelling, numeric techniques and grammar.
Prerequisites: C or better in ExcEduc 304 (P) or Level 2+ ASLPI score.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 306 American Sign Language VI
3 cr. Undergraduate.
Advanced American Sign Language focusing on register, colloquialisms, storytelling and poetry.
Prerequisites: C or better in ExcEduc 305(P).
Current Offerings: http://uwm.edu/schedule
EXCEDUC 320 Introduction to Interpreting: English to American Sign Language
3 cr. Undergraduate.
Theoretical and practical examination and development of various techniques of interpreting from English into American Sign Language through discourse analysis.
Prerequisites: grade of B or better in ExcEduc 303(P).
Last Taught: Summer 2017, Summer 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 321 Introduction to Interpreting: American Sign Language to English
3 cr. Undergraduate.
Theoretical and practical examination and development of various techniques of interpreting from American Sign Language to English through discourse analysis.
Prerequisites: grade of B or better in ExcEduc 303(P).
Last Taught: Summer 2017, Summer 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 330 Deaf History
3 cr. Undergraduate.
History of the Deaf Community in America primarily as well as in other countries.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 335 Educational Interpreting I
3 cr. Undergraduate.
Explores issues related to interpreting for children in settings from pre-kindergarten through elementary. Analysis of impact of transitions on professional roles, responsibilities, and ethics.
Prerequisites: admis. to ITP program.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 336 Postsecondary Interpreting I
3 cr. Undergraduate.
Introductory knowledge/skills-based course that examines interpreting in a postsecondary environment, including both the technical college and university level.
Prerequisites: admis. to ITP program.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 337 Video Relay Services Interpreting I
3 cr. Undergraduate.
Introductory knowledge/skills-based course that examines interpreting via distance technology, including video relay and video remote interpreting.
Prerequisites: admis. to ITP program.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 338 Introduction to Healthcare Interpreting
3 cr. Undergraduate.
Introduction to the unique challenges of and skills for sign language interpreting in medical settings.
Prerequisites: admis. to ITP.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 345 Foundations of English to ASL Interpreting
3 cr. Undergraduate.
Techniques for changing an auditory English message into American Sign Language and vice versa.
Prerequisites: jr st & admis to ITP or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 346 Skill Development: Semantics
3 cr. Undergraduate.
Analysis of American Sign Language linguistics semantics. Focus of individual sign meanings, semantic grammar structure including colloquialisms and cultural influences on meanings of signs.
Prerequisites: C or better in ExcEduc 304(P) or Level 2+ ASLPI score
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 347 Foundations of ASL to English Interpreting
3 cr. Undergraduate.
development of English skills for the purposes of providing appropriate interpretations.
Prerequisites: admis to ITP or cons instr.
Course Rules: Not open to students with cr in ExcEduc 326(426).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 348 Introduction to the Profession of Interpreting
3 cr. Undergraduate.
Introduction to the professions and practices of interpreting. Focus on its history, philosophies, ethics, roles, resources and credentialing within the profession.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 349 Field work: Interacting in the Deaf Community I
3 cr. Undergraduate/Graduate.
Experiences of observation, actual interpreting, sign teaching and interaction with deaf community. Weekly seminar provides forum for feedback and processing experiences.
Prerequisites: jr st, admis to ITP, or cons instr.
Course Rules: Not open for cr to students with cr in ExcEduc 322(657).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 350 Interpreting: Spoken English to ASL II
3 cr. Undergraduate.
Practical application of the process of taking a spoken English message and converting it into American Sign Language. Emphasis on the consecutive mode.
Prerequisites: jr st & admis to ITP or cons instr.
Course Rules: Not open for cr to students with cr in ExcEduc 315.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 351 Interpreting ASL to Spoken English II
3 cr. Undergraduate.
Continues to develop the skill of changing a message signed in ASL into spoken English. Consecutive mode practiced; individual appointments emphasized.
Prerequisites: admis to ITP, ExcEduc 345(P).
Course Rules: Not open for cr to students with cr in ExcEduc 316.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 352 American Deaf Culture
3 cr. Undergraduate.
The impact of Deaf culture on the Deaf community and Deaf education, understanding the Deaf person in a cultural context.
Prerequisites: none.
Course Rules: Not open for cr to students with cr in ExcEduc 340(650).
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 353 Introduction to Culturally Diverse Community Resources
3 cr. Undergraduate/Graduate.
Overview of community resources serving consumers with hearing impairments. Professionals and consumers from agencies and organizations will address needs as they relate to interpreting.
Prerequisites: jr st & admis to ITP or grad st, or cons instr.
Course Rules: Not open for cr to students with cr in ExcEduc 342(421).
Current Offerings: http://uwm.edu/schedule

EXCEDUC 354 Fieldwork: Interacting in the Deaf Community II
3 cr. Undergraduate/Graduate.
Continuation of ExcEduc 349: requires time observing, interpreting, teaching and community interaction. Weekly seminars continue to provide forum for processing of experiences.
Prerequisites: jr st & admis to ITP, ExcEduc 351(P) & 355(P), or cons instr.
Course Rules: Not open for cr to students with cr in ExcEduc 323(658).
Current Offerings: http://uwm.edu/schedule

EXCEDUC 355 Interpreting: ASL to Spoken English III
3 cr. Undergraduate.
Developing intermediate to advanced skills in simultaneously converting American Sign Language to spoken English.
Prerequisites: ExcEduc 345(P) & 350(P), & admis to ITP.
Course Rules: Not open for cr to students with cr in ExcEduc 318 or 319.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 356 Transliteration II
3 cr. Undergraduate.
Skills and theory necessary to change a spoken English message into the form of a signed English message and vice-versa.
Prerequisites: admis to ITP or cons instr.
Course Rules: Not open for cr to students with cr in ExcEduc 327 or 328.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 357 Issues and Trends for Educational Interpreters
3 cr. Undergraduate.
Historical and current issues affecting the education of students who are deaf and hard-of-hearing and their influence on the field of educational interpreting.
Prerequisites: admis to ITP.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 358 ASL/English Linguistics I
3 cr. Undergraduate/Graduate.
The linguistics of American Sign Language, exploring its structure and grammar, emphasizing its phonology and its comparison to English.
Prerequisites: C or better in ExcEduc 306(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 359 Fieldwork: Interacting in the Deaf Community III
3 cr. Undergraduate.
Continuation of ExcEduc 323: requires greater emphasis on interpreting, less on observation, teaching and community interaction. Weekly seminar continues for processing of experiences.
Prerequisites: ExcEduc 354(P) or 349(P); & admis to ITP.
Course Rules: Not open for cr to students with cr in ExcEduc 324.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 360 Transliteration/Oral I
3 cr. Undergraduate.
Introduction of the mechanics and skills needed for Transliteration and Oral Interpreting.
Prerequisites: admis to ITP, ExcEduc 350(P) & 355(P); or cons instr.
Course Rules: Not open to students with cr in ExcEduc 320.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 361 Interpreting: Spoken English to ASL III
3 cr. Undergraduate.
Developing intermediate to advanced skills in simultaneously converting spoken English into American Sign Language. Students will work with a variety of stimulus materials.
Prerequisites: admis to ITP, ExcEduc 351(P) & 355(P), or cons instr.
Course Rules: Not open for cr to students who have cr in ExcEduc 321.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 362 Specialized Interpreting Across Diverse Settings
3 cr. Undergraduate.
Guidelines for interpreting, transliterating, and voicing in a variety of settings, including vocational, legal, health related and performing arts.
Prerequisites: admis to ITP.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 363 ASL/English Linguistics II
3 cr. Undergraduate/Graduate.
Focus on the linguistics of American Sign Language, including emphasis on its morphology and syntax and its comparison to English.
Prerequisites: jr st, C or better in ExcEduc 358(P), or cons instr.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 364 Fieldwork: Interacting in the Deaf Community IV
6-12 cr. Undergraduate.
Continuation of ExcEduc 359: requiring 70% focus on actual interpreting, the remainder on observation, teaching and community interaction. Seminar offers forum for processing experiences.
Prerequisites: ExcEduc 354(P) & 359(P) & admis to ITP.
Course Rules: May be retaken to 12 cr max. Not open for cr to students with cr in ExcEduc 325.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 365 Educational Interpreting II
3 cr. Undergraduate.
Issues related to interpreting for children from 6th through 12th grade. Use of various sign systems in educational settings, working conditions and attitudes, and DPI certification issues.
Prerequisites: admis. to ITP.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 366 Postsecondary Interpreting II
3 cr. Undergraduate.
Advanced knowledge/skills-based course that examines interpreting in a postsecondary environment, including technical college and university level.
Prerequisites: admis. to ITP.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 367 Video Relay Services Interpreting II
3 cr. Undergraduate.
Continuation of the VRS Foundations I course and will continue to be a knowledge/skills-based course that examines interpreting via distance technology, including video relay and video remote interpreting.
Prerequisites: admis. to ITP.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 368 Medical and Mental Healthcare Interpreting
3 cr. Undergraduate.
Prerequisites: admis. to ITP.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 371 Strategies for the National Interpreter Certification Exam
1 cr. Undergraduate.
Techniques and strategies for the knowledge and ethical skills required for the RID-NIC Knowledge Exam.
Prerequisites: grade of B- or better in ExcEduc 354(P).
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 372 Interpreter Training Program Capstone
3 cr. Undergraduate.
Integrates coursework, knowledge, skills and experiential learning to enable the student to demonstrate a broad mastery of learning across the curriculum for a promise of employability and further career advancement.
Prerequisites: ExcEduc 364(C).
Current Offerings: http://uwm.edu/schedule

EXCEDUC 375 Using Technology for Teaching and Learning
1 cr. Undergraduate.
Introduce students to various forms of technology used in the PK-12 classrooms.
Prerequisites: none.
Course Rules: Jointly offered with and counts as repeat of CurrIns 375.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 376 Understanding and Developing the edTPA
1 cr. Undergraduate.
In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries.
Prerequisites: none.
Course Rules: Credit/no credit only. Jointly offered with and counts as repeat of CurrIns 376.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 377 Wisconsin Foundations of Reading
1 cr. Undergraduate.
Foundational literacy assessment and instruction for diverse learners to prepare for the Wisconsin Foundations of Reading test. Focus on reading development grades PreK-8.
Prerequisites: none.
Course Rules: Jointly offered with and counts as repeat of CurrIns 377.
Credit/No Credit only.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 456 Seminar in Student Teaching
1-3 cr. Undergraduate.
Discussion seminar designed to bring continuity to the professional experience of the students.
Prerequisites: Jr st & conc reg in student teaching.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 472 Student Teaching with Students Having Hearing Impairments
1-12 cr. Undergraduate.
Prerequisites: sr st & cons dept; ExcEduc 650(P).
Course Rules: May be retaken to 15 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 473 Student Teaching with Students Having Cognitive Disabilities
1-12 cr. Undergraduate.
Prerequisites: sr st & cons dept; ExcEduc 640(P).
Course Rules: May be retaken to 15 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 475 Student Teaching with Students Having Emotional Disturbance
1-12 cr. Undergraduate.
Prerequisites: sr st & cons dept; ExcEduc 620(P).
Course Rules: May be retaken to 15 cr max.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 478 Student Teaching with Students Having Learning Disabilities
1-12 cr. Undergraduate.
Prerequisites: sr st & cons dept; ExcEduc 610(P).
Course Rules: May be retaken to 15 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 481 Student Teaching with Students Having Early Childhood Exceptional Ed Needs
1-12 cr. Undergraduate.
Prerequisites: sr st & cons dept; ExcEduc 630(P).
Course Rules: May be retaken up to 18 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 486 Linking Seminar: Developing Reflective Practice
1-3 cr. Undergraduate.
Links formal course work and teaching experience. Focus on teaching in urban schools, accommodating diverse learners developing reflective practice and/or creating a professional development portfolio.
Prerequisites: admis to School of Educ.
Course Rules: Cr/no cr only; May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 487 Linking Seminar II: Primary/Middle-Behavioral Support, Planning, Assessment
1 cr. Undergraduate.
Links formal course work and teaching experience. Focus on becoming a reflective practitioner and development as a special education teacher.
Prerequisites: C or better in ExcEduc 305(P) or 306(P).
Current Offerings: http://uwm.edu/schedule

EXCEDUC 488 Linking Seminar: Professional Development
1 cr. Undergraduate/Graduate.
Links formal coursework and teaching experience. Focus on teacher as advocate and change agent and professional development.
Prerequisites: jr st; admis to School of Educ.
Course Rules: Cr/no cr only; May not be retaken.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 489 Linking Seminar II: Middle/High-Behavioral Support, Planning & Assessment
1 cr. Undergraduate.
Links formal coursework and teaching experience. Focus on organizing for instruction and emotional/behavioral support at the middle and high school level.
Prerequisites: ExcEduc 635(C) & 587(C); admis to ExcEduc prog or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 496 Linking Seminar III: Middle/High - Professional Development
1 cr. Undergraduate.
Links formal course work and teaching experience. Focus on supporting students with behavioral challenges, planning for and managing day-to-day teaching responsibilities, transition planning.
Prerequisites: admis to School of Educ.
Course Rules: Cr/no cr only;
Current Offerings: http://uwm.edu/schedule

EXCEDUC 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Directed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st, cons instr, acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 500 Fingerspelling & Numbers
3 cr. Undergraduate/Graduate.
Introduction to fingerspelling and numbers in ASL.
Prerequisites: jr st; C or better in ExcEduc 304(P) or Level 2+ ASLPI score.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 503 Job Development and On the Job Support for Students with Disabilities
3 cr. Undergraduate.
Overview of the career development process and a person-centered framework for job development and job support.
Prerequisites: ExcEduc 679(P)
Current Offerings: http://uwm.edu/schedule

EXCEDUC 505 Transition Assessment for Individuals with Disabilities
3 cr. Undergraduate.
Transition assessments related to training, education, employment, and living skills for students with disabilities.
Prerequisites: ExcEduc 679(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 507 Linking Academics and Self-Determination to Transition Planning
3 cr. Undergraduate.
Youth development and the importance of preparing youth to take the lead in their education, career development, and community participation.
Prerequisites: ExcEduc 679(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 510 Classifiers
3 cr. Undergraduate/Graduate.
Study of the classifier system of ASL.
Prerequisites: jr st; C or better in ExcEduc 305(P) or 306(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 520 ASL Literature
3 cr. Undergraduate/Graduate.
Introduction to the analysis of ASL Literature.
Prerequisites: jr st; C or better in ExcEduc 306(P), or cons. instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 531 Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language
3 cr. Undergraduate/Graduate.
Understanding the needs of secondary level students with handicaps, emphasizing methods of assessment and programming in mainstreamed settings.
Prerequisites: jr st & admis to School of Educ; or grad st.
Course Rules: Counts as repeat of ExcEduc 530 and 605.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 532 Assessment and Monitoring
3 cr. Undergraduate/Graduate.
Roles and responsibilities in district-wide and alternative assessment, developing monitoring systems, report writing, equitable and just assessment practices.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 533 Assessment/Monitoring : Deaf & Hard of Hearing
1 cr. Undergraduate/Graduate.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 536 Inclusion for Secondary Science and Math Educators
1 cr. Undergraduate/Graduate.
History and legislation related to Special Education, characteristics of various disabilities, overview of universal design for learning (UDL), and accommodations and modifications of curriculum and instruction to meet the needs of all learners.
Prerequisites: jr st, admis to teacher cert prog.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 537 Math and Science Methods for All Learners
1 cr. Undergraduate/Graduate.
Lesson and unit planning that incorporates curriculum and instructional strategies designed to include students with identified disabilities, in collaboration with special educators.
Prerequisites: jr st, admis to teacher cert prog.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 538 Teaching Math and Science to All Learners
1 cr. Undergraduate/Graduate.
Practicum working with students with disabilities in general education settings focused on the planning and delivery of lessons in inclusive classrooms, in collaboration with special educators.
Prerequisites: jr st, admis to teacher cert prog.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 547 Comparative Special Education
3 cr. Undergraduate/Graduate.
Special education legislation, instruction, and policies in a variety of social and cultural contexts.
Prerequisites: jr st., completion of OWC-Part A
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

EXCEDUC 548 Introduction to Disability Studies
3 cr. Undergraduate/Graduate.
Focuses on understanding disability from a variety of perspectives: historical, political, social, cultural, literary, personal, and artistic. Disability is viewed in a manner closer to ethnic, gender, and sexuality studies.
Prerequisites: jr st, OWC Part A; or grad st.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

EXCEDUC 555 Communication in the Classroom I: Deaf/Hard of Hearing
3 cr. Undergraduate/Graduate.
Developing proficiency and instructional skills in using manual communication for individuals who are deaf or hard of hearing in the educational context.
Prerequisites: must pass competency test in basic aspects of manual communication prior to registration; jr st; admis to Post-Bac Cert prog or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 556 Communication in the Classroom II: Deaf/Hard of Hearing
3 cr. Undergraduate/Graduate.
Linguistic analysis and curriculum planning for facilitating the development of communication in students who are deaf or hard of hearing.
Prerequisites: ExcEduc 680(P) & 681(P). Admis to Post-Bac Cert prog or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 557 Foundations of Autism Spectrum Disorders
3 cr. Undergraduate/Graduate.
Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.
Prerequisites: jr st or cons instr; grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 558 Communication in the Classroom I: Deaf/Hard of Hearing
3 cr. Undergraduate/Graduate.
Developing proficiency and instructional skills in using manual communication for individuals who are deaf or hard of hearing in the educational context.
Prerequisites: must pass competency test in basic aspects of manual communication prior to registration; jr st; admis to Post-Bac Cert prog or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 559 Communication in the Classroom II: Deaf/Hard of Hearing
3 cr. Undergraduate/Graduate.
Linguistic analysis and curriculum planning for facilitating the development of communication in students who are deaf or hard of hearing.
Prerequisites: ExcEduc 680(P) & 681(P). Admis to Post-Bac Cert prog or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 560 Foundations of Autism Spectrum Disorders
3 cr. Undergraduate/Graduate.
Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.
Prerequisites: jr st or cons instr; grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 561 Methods for Working with Individuals with Autism Spectrum Disorders
3 cr. Undergraduate/Graduate.
Strategies for special education teachers and others for effectively working with individuals with autism spectrum disorders. Overview of instructional issues, inclusion, and curriculum development.
Prerequisites: jr st, C or better in ExcEduc 560(P) or cons instr.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 562 Hearing Science
3 cr. Undergraduate/Graduate.
Overview of physical and psycho-physical concepts of hearing science, speech mechanism, audiological evaluation and implications for the educational context.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 563 Speechreading/Auditory Rehabilitation
3 cr. Undergraduate/Graduate.
Techniques for teaching speech, speechreading, listening, and auditory training for children who are deaf or hard of hearing.
Prerequisites: admis to Post-Bac Cert prog or cons instr; ExcEduc 562(P); jr st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 564 Communication Methods Practicum
3 cr. Undergraduate/Graduate.
Field experience with individuals with hearing impairments in schools. Emphasis on spoken and sign language development. Includes scheduled class and demonstrations.
Prerequisites: jr st; admis to School of Educ or grad st; ExcEduc 541, 562 & 563, or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 565 Techniques of Teaching School Subjects to Individuals w/ Hearing Impairments II
3 cr. Undergraduate/Graduate.
Methods of teaching social studies, science, and mathematics as related to the language needs of students with hearing impairments and academic deficiencies.
Prerequisites: jr st & admis to School of Educ, or grad st; ExcEduc 560 & 561 or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 568 Curriculum and Methods for Special Education: Birth to Three
3 cr. Undergraduate/Graduate.
Designed for teachers serving infants and toddlers with disabilities and their families.
Prerequisites: jr st; admis to ExcEduc prog; ExcEduc 647(C).
Current Offerings: http://uwm.edu/schedule

EXCEDUC 569 Curriculum and Methods for Special Education: Preschool
3 cr. Undergraduate/Graduate.
Designed for teachers serving preschool children with disabilities and their families.
Prerequisites: jr st; admis to ExcEduc prog; ExcEduc 648(C).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 570 Curriculum and Methods for Special Education: Primary
3 cr. Undergraduate/Graduate.
Designed for teachers serving primary children with disabilities and their families.
Prerequisites: jr st; admis to ExcEduc prog; ExcEduc 649(C).
Current Offerings: http://uwm.edu/schedule

EXCEDUC 571 Curriculum Accommodations I: Primary/Middle
1-3 cr. Undergraduate/Graduate.
Determine individualized goals within a broad curriculum framework and develop strategies for making accommodations in teaching methods, materials and class set-up.
Prerequisites: admis to Post-Bac Cert prog or cons instr; jr st; ExcEduc 587(C).
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 574 Curriculum Accommodations II: Primary/Middle
3 cr. Undergraduate/Graduate.
In-depth experience in IEP planning and scheduling to accommodate students with highly individualized needs within the academic curriculum.
Prerequisites: ExcEduc 571(P), 588(C). Admis to post-bac cert prog or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 576 Curriculum Accommodations III: Functional for Middle to High Students
3 cr. Undergraduate/Graduate.
Planning and scheduling for students with highly individualized goals, including school-to-work, while striving to integrate these goals into a well-coordinated program.
Prerequisites: admis to Post-Bac cert prog or cons instr.
Last Taught: Fall 2005, Fall 2004, Fall 2003, Fall 2002.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 579 Current Topics in Exceptional Education: 1-3 cr. Undergraduate/Graduate.
Specific topic announced in Schedule of Classes each time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 580 An Overview of Child/Youth Care
3 cr. Undergraduate/Graduate.
Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.
Prerequisites: jr st or cons instr.
Course Rules: Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.
Last Taught: Fall 2014, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 585 Supervised Practicum in Child and Youth Care
2-4 cr. Undergraduate/Graduate.
Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorially, cognitively and/or physically disabled youth.
Prerequisites: jr st; Ed Pol/ExcEduc/Soc Wrk 580(P), or grad st; cons instr.
Course Rules: Ed Pol/ExcEduc 585 are jointly offered & count as repeats of each other.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 586 Teaching Experience I
1-12 cr. Undergraduate/Graduate.
Placement with a regular education teacher. Focus on understanding regular curriculum framework and experience teaching small groups.
Prerequisites: jr st; admis to Post-Bac Cert prog.
Course Rules: C/t/no cr only; may be retaken to 15 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 587 Teaching Experience II
1-12 cr. Undergraduate/Graduate.
Placement with exceptional education teacher. Focus on small group instruction, understanding teaching responsibilities and collaboration. On-the-job option available through application.
Prerequisites: jr st; admis to cert prog in ExcEduc; or cons instr.
Course Rules: May be retaken to 15 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 588 Teaching Experience III
1-12 cr. Undergraduate/Graduate.
Placement with exceptional education teacher. Full teaching responsibility is assumed. On-the-job option available through special application.
Prerequisites: jr st; admis to cert prog in ExcEduc; or cons instr.
Course Rules: May be retaken to 15 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 589 Workshop in Exceptional Education:
1-6 cr. Undergraduate/Graduate.
Variable content format examines assessment and/or methodological strategies appropriate for educators working with broad range of handicapped children and adolescents.
Prerequisites: jr st; cons instr or workshop dir.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 595 Technology Applications for Diverse Learners
3 cr. Undergraduate/Graduate.
Explores the use of technology to enhance the academic performance of diverse students in inclusive classrooms.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 600 Survey of Exceptional Education
3 cr. Undergraduate/Graduate.
History, theories, research, and practices related to individuals with learning, sensory, behavioral or physical handicapping conditions.
Prerequisites: sr st & admis to School of Educ; or grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 601 Behavioral Supports
3 cr. Undergraduate/Graduate.
Addresses needs of students with challenging behaviors. Emphasis on working collaboratively to conduct functional behavioral analysis.
Prerequisites: admis to Post Bac Cert prog or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 602 Resources and Instruction in American Sign Language
3 cr. Undergraduate/Graduate.
Course focuses on assessment and methodology components in teaching ASL as a foreign language.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 605 Child, Learner, Disabilities
3 cr. Undergraduate/Graduate.
Perspectives on disability; learning characteristics associated with disabilities; historical, legal and philosophical foundations; child mentoring and advocacy linked with a family-based practicum.
Prerequisites: admis to Post-Bac Cert prog or cons instr.
Course Rules: Counts as repeat of ExcEduc 530 and 531.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 607 Working with Culturally Diverse Deaf Students
3 cr. Undergraduate/Graduate.
Discusses the educational and culturally diverse backgrounds of deaf students in the schools.
Prerequisites: none.
Course Rules: Counts as repeat of ExcEduc 579 with similar topic.
Last Taught: Summer 2006.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 608 Multicultural Learning and Teaching in Special Education
3 cr. Undergraduate/Graduate.
Covers theoretical and practical applications of multicultural issues to learning and teaching in special education.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 612 Collaborations for Teachers with Families, Schools, and Communities
3 cr. Undergraduate/Graduate.
Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.
Prerequisites: jr st.
Course Rules: Counts as repeat of CurrIns 505 and ExcEduc 651. Jointly offered with and counts as repeat of CurrIns 612.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 613 Infant and Early Childhood Assessment
3 cr. Undergraduate/Graduate.
Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.
Prerequisites: jr st.
Course Rules: Counts as repeat of Ed Psy 575. Jointly offered with and counts as repeat of Ed Psy 613.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 630 Survey of EC Intervention: Young Children with Special Needs, Families
3 cr. Undergraduate/Graduate.
Introduction to etiology, historic background, current service provisions, and issues and trends as related to infants, toddlers, and preschoolers with disabilities and their families.
Prerequisites: jr st & admis to School of Educ; or grad st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 631 Methods for Teaching Communication Skills to Students with Severe Disabilities
3 cr. Undergraduate/Graduate.
Study of assessment, instructional, and augmentative techniques for teaching and providing communication (vocal and non-vocal) to students with severe disabilities.
Prerequisites: sr st; ExcEduc 665(410)(P), ComsDis 240(P), or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 633 Interdisciplinary Team Field Experience in Urban Settings
2 cr. Undergraduate/Graduate.
Field experience is designed to develop student's skills as members of interdisciplinary teams in urban community settings.
Prerequisites: jr st; ExcEduc 634(C).
Current Offerings: http://uwm.edu/schedule

EXCEDUC 634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities
3 cr. Undergraduate/Graduate.
Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.
Prerequisites: jr st.
Course Rules: ExcEduc 634, Occthpy 634, & ComSDis 634 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 635 Individualized Planning & Instructional Methods
2-3 cr. Undergraduate/Graduate.
Methods and strategies for teaching and evaluating adolescents with disabilities. Special emphasis given to individual educational programs, lesson planning and scheduling.
Prerequisites: jr st; admis to Post-Bac cert prog or cons instr; ExcEduc 487(C) & 587(C) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 636 Curriculum Accommodations
2-3 cr. Undergraduate/Graduate.
Methods and strategies for teaching and evaluating adolescents with learning disabilities, emotional disturbance and cognitive disabilities. Special emphasis given to developing individual adaptations and modifications.
Prerequisites: jr st; admis to Post-Bac Cert prog or cons instr; ExcEduc 635(P); 488(C) & 588(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 644 Enhancing Literacy Learning for Diverse Learners:
3 cr. Undergraduate/Graduate.
Teaching reading and writing to diverse learners.
Prerequisites: currently teaching with at least 2 yrs experience; cons instr.
Course Rules: Jointly offered with & subtitles count as repeat of same title of CurrIns 644. CurrIns 644 & ExcEduc 644 may be retaken with change of topic to combined 9 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 647 Early Childhood Special Education Field Experience: 0 to 3 Yrs
3 cr. Undergraduate/Graduate.
Provides urban experiences in early intervention programs to develop teaching skills in birth to three programs.
Prerequisites: jr st; admis to ExcEduc prog.
Course Rules: May be retaken to 9 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 648 Early Childhood Special Education Field Experience: Preschool
3 cr. Undergraduate/Graduate.
Practicum provides urban teaching experiences in preschool programs to develop skills for working with 3-to-5 year olds with special needs and their families.
Prerequisites: jr st; admis to ExcEduc prog.
Course Rules: May be retaken to 9 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 649 Early Childhood Special Education Field Experience: Primary
3 cr. Undergraduate/Graduate.
Practicum provides urban teaching experiences in primary school-age programs to develop skills for working with 1st to 3rd graders with special needs and their families.
Prerequisites: jr st; admis to ExcEduc prog.
Course Rules: May be retaken to 9 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 651 Working With Families in Urban Communities
3 cr. Undergraduate/Graduate.
Familial and ecological factors affecting individuals with disabilities and their caregivers including in-depth experiences with a family who has a young child with special needs.
Prerequisites: jr st.
Last Taught: Spring 2015, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 652 Developmental Evaluation of Young Children with Disabilities
3 cr. Undergraduate/Graduate.
The major functions of assessment used by Early Childhood Special Educators.
Prerequisites: jr st; ExcEduc 651(P).
Current Offerings: http://uwm.edu/schedule
EXCEDUC 655 Introduction to Education of Individuals Who are Deaf and Hard of Hearing
3 cr. Undergraduate/Graduate.
Overview of educational programs and policies for pre K-12 students who are deaf and hard of hearing.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 662 Collaborative Strategies
3 cr. Undergraduate/Graduate.
Provides the teacher with techniques that will assist in establishing relationships with other professionals, parents, and community agencies.
Prerequisites: jr st, ExcEduc 300(P), 600(P), or 605(P); admis to Post-Bac Cert prog or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 665 Language and Literacy for the Exceptional Student
3 cr. Undergraduate/Graduate.
An overview of the theoretical underpinnings for language and literacy practices, assessments, and methods of facilitating growth in students with exceptional education needs.
Prerequisites: ExcEduc 300 or equiv; ComsDis 240, jr st & admis to School of Educ or grad st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 671 Behavior Support & Intervention for Mid/High Students with Disabilities
3 cr. Undergraduate/Graduate.
Techniques in arranging academic and social environments for adolescents having learning and social problems.
Prerequisites: admis to Middle/High prog; cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 676 Learning Strategies II: Cognitiv/Metacognitv Intervnmns- Mild Hndicapd Stntns
3 cr. Undergraduate/Graduate.
Indepth analysis of strategy instruction for use with adolescents with mild handicaps.
Prerequisites: jr st, ExcEduc 675, cons instr; teacher certification.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 679 Critical Issues in Transition Planning for Students with Disabilities
3 cr. Undergraduate/Graduate.
Understanding transition planning and tools to effectively assist students with disabilities in the transition process.
Prerequisites: jr st.
Course Rules: Counts as repeat of ExcEduc 589 with similar topic.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 680 Literacy I
3 cr. Undergraduate/Graduate.
Observing and assessing reading and writing; implementing basic strategies toward supporting reading and writing development; becoming a motivated reader/writer.
Prerequisites: admis to the Post-Bac Cert prog or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 681 Literacy II
3 cr. Undergraduate/Graduate.
Organizing and implementing literacy instruction. Addressing the individual strengths and needs in communication of students with disabilities.
Prerequisites: ExcEduc 680(P); admis to the Post-Bac Cert prog or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 682 Language and Literacy in Early Childhood Special Education
3 cr. Undergraduate/Graduate.
Methods in language and literacy instruction for children with special needs including study of first and second language development in children birth through age eight.
Prerequisites: jr st; admis to Post-Bac cert prog, or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 684 Multisensory Structured Language Teaching
3 cr. Undergraduate/Graduate.
Advanced study of dyslexia and how to implement remedial approaches to literacy. Includes a required practicum experience.
Prerequisites: Post-bac status or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 685 Advanced Methods in Learning Disabilities
3 cr. Undergraduate/Graduate.
Examination of recommended instructional practices in the areas of literacy, mathematics, organization and study skills, social interactions and self-advocacy.
Prerequisites: grad st or admis to Post-Bac Cert prog or cons instr.
Course Rules: Counts as repeat of ExcEduc 589 with same topic.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 699 Independent Reading
1-3 cr. Undergraduate/Graduate.
Examination of recommended instructional practices in the areas of literacy, mathematics, organization and study skills, social interactions and self-advocacy.
Prerequisites: jr st & admis to School of Educ or grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 703 Vocational Aspects in Rehabilitation and Exceptional Education
3 cr. Graduate.
Disability and case management practices for severely disabled persons. Emphasis on return-to-work interventions: vocational evaluation, work adjustment, job placement, accommodation, ergonomics.
Prerequisites: grad st; ExcEduc 679(P) or Couns 601(C).
Course Rules: Jointly offered with & counts as repeat of Couns 703.
Last Taught: Spring 2002.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 705 Understanding Culture and Ethnicity in the Transition Process
3 cr. Graduate.
This course will provide an overview of the importance of culture & ethnicity in the transition process for students with disabilities.
Prerequisites: grad st; ExcEduc 679(P); cons instr.
Last Taught: Fall 2002.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 707 Infusing Socio-Sexual Issues into Transition Planning
3 cr. Graduate.
This course is designed to discuss socio-sexual issues & facilitate participants’ development of skills needed to infuse socio-sexual issues into transition planning.
Prerequisites: grad st; ExcEduc 679(P); cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 708 Student, Family & Community Involvement in the Transition Planning Process
3 cr. Graduate.
This course is designed to explore trends & strategies relative to the development of self determination skills, person-centered planning & educators as consultants in transition planning.
Prerequisites: grad st; exceduc 679(P); cons instr.
Last Taught: Fall 2001.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 715 Issues and Trends in Exceptional Education
3 cr. Graduate.
Designed for students with entry level experience in exceptional education, the course reviews the exceptional education populations, methodology and current issues and trends.
Prerequisites: grad st; ExcEduc 300 or equiv or cons dept.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 730 Assistive and Instructional Technology for Students with Disabilities
3 cr. Graduate.
Introduction to special education technology emphasizing applications for students with disabilities and their teachers.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 735 Technology & Instruction for Students with Disabilities
3 cr. Graduate.
Curriculum intergration models and technology integration strategies for enhancing educational outcomes of students with disabilities.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 740 Universal Design for Learning: Research and Practice
3 cr. Graduate.
Study of research in universal design for learning and design of classroom interventions that enhance the performance of students with disabilities and their non-handicapped peers.
Prerequisites: grad st.
Course Rules: Counts as repeat of ExcEduc 779 with same topic.
Last Taught: Spring 2011, Summer 2009.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 760 Foundations of Autism Spectrum Disorders
3 cr. Graduate.
Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.
Prerequisites: grad st
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 761 Methods for Working with Individuals with Autism
3 cr. Graduate.
Strategies for special education teachers and others for effectively working with individuals with autism spectrum disorders. Overview of instructional issues, inclusion, and curriculum development.
Prerequisites: grad st.; ExcEduc 760(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 762 Academic/Social Challenges of Individuals with ASD: Adv. Interventions
3 cr. Graduate.
Intervention and Supports for Individuals with high functioning Autism and Asperger Syndrome.
Prerequisites: grad st.; ExcEduc 760(P) and ExcEduc 761(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 765 Assistive Technology Service Delivery in Schools
3 cr. Graduate.
Introduction to legal, legislative, and policy foundations guiding the creation and delivery of assistive technology services in schools, clinics and agencies.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 770 Seminar: Research on Individuals With Special Needs
3 cr. Graduate.
Recent research relevant to individuals with handicapping conditions.
Prerequisites: grad st; ExcEduc 300(P) or 600(P).
Current Offerings: http://uwm.edu/schedule

EXCEDUC 771 Field Work with Students Having Exceptional Education Needs
3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 772 Field Work with Students Having Hearing Impairments
1-3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Summer 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 773 Field Work with Students Having Cognitive Disabilities
3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 775 Field Work: Individuals with Autism Spectrum Disorders
3 cr. Graduate.
Prerequisites: grad st; ExcEduc 760(P) & ExcEduc 761(C) or cons instr
Last Taught: Fall 2017, Spring 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 776 Fieldwork with Students Having Early Childhood-Exceptional Education Needs
1-3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 777 Fieldwork in Assistive Technology
1-6 cr. Graduate.
Provides students with a school- or clinic-based experience in the delivery of assistive technology services.
Prerequisites: grad st & cons instr.
Course Rules: ExcEduc 777 & Occthy 777 are jointly offered; they count as repeats of one another. May be retaken for 9 cr max.
Last Taught: Spring 2016, Fall 2014, Spring 2010.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 778 Field Work with Students Having Learning Disabilities
3 cr. Graduate.
Prerequisites: grad st; cons dept.
Course Rules: Retakable to 9 cr max.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 779 Current Topics in Exceptional Education:
1-3 cr. Graduate.
Specific topic announced in schedule of classes each time course is offered.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 780 Internship in Special Education Administration
3 cr. Graduate.
Students will work with selected administrators in the field of special education administration.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 790 Administration of Pupil Services
3 cr. Graduate.
Review and analysis of pupil service programs in K-12 education, considers historical, legal and professional proactive standards.
Prerequisites: grad st; Ad Ldsp 710(P); 752(P); cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 799 Independent Reading
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 801 Urban Education: Doctoral Seminar in Exceptional Education
3 cr. Graduate.
Examination of research on exceptional education in urban settings including topics related to students in general and special education environments.
Prerequisites: grad st; admis to urban educ doctoral prog; Educ 701.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 805 Legislative and Legal Aspects of Exceptional Education
3 cr. Graduate.
Legislative and legal factors involved in educating individuals with handicapping conditions.
Prerequisites: grad st; ExcEduc 600.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 815 Capstone Course In Special Education
3 cr. Graduate.
Culmination of course work during the graduate program leading to the development of the thesis or graduate project.
Prerequisites: grad st; ExcEduc 715(P).
Last Taught: Fall 2014, Summer 2014, Fall 2013, Summer 2013.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 861 Foundations in Student Services and Special Education Administration
3 cr. Graduate.
Sets the foundation for leadership in special education and student services in the context of integrated comprehensive services and student diversity.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 880 Proseminar in Urban Education: Exceptional Education
3 cr. Graduate.
An examination of selected problems and issues in urban education.
Prerequisites: grad st; admis to Urban Educ doctoral prog.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr will be assessed.
Last Taught: Fall 2015, Summer 2015, Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 890 Master's Research Project
1-6 cr. Graduate.
Research project for master's degree in Exceptional Education.
Prerequisites: grad st; cons instr
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule
EXCEDUC 900 Seminar: Urban Issues in Exceptional Education
3 cr. Graduate.
Analysis of societal forces affecting special education, teachers, and pupils in an urban environment. Emphasis on social-political-economic and human-relations factors operant in special education programs.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 950 Seminar: Research on Mental Retardation
3 cr. Graduate.
Review of literature in mental retardation. Evaluation of recent research.
Prerequisites: grad st; ExcEduc 640.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 953 Seminar on Early Intervention: Infants/Young Children with Special Needs & Families
3 cr. Graduate.
Analysis of research and contemporary issues in early intervention for infants, toddlers, and preschoolers with special needs and their families.
Prerequisites: grad st; ExcEduc 630 or 640 or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 955 Seminar: Research on Students with Severe Handicaps
3 cr. Graduate.
Analysis of the contemporary issues and trends in the field of the education of students with severe handicaps.
Prerequisites: grad st, ExcEduc 556 or cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 960 Seminar: Administration/Supervision of Programs for Exceptional Individuals
3 cr. Graduate.
Administration, supervision, philosophy, organization, and federal and state legislation affecting individuals with handicapping conditions.
Prerequisites: grad st, ExcEduc 300 or 600.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 961 Advanced Analysis and Design of Student Service and Special Education Administration
3 cr. Graduate.
Advanced analysis and design of organization and leadership of integrated comprehensive services for all learners.
Prerequisites: grad st; ExcEduc 861(P).
Current Offerings: http://uwm.edu/schedule

EXCEDUC 975 Seminar: Research on Individuals with Hearing Impairments
3 cr. Graduate.
Review of literature on hearing impairments and education of individuals with hearing impairments. Evaluation of recent research.
Prerequisites: grad st; ExcEduc 650.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 990 Research or Thesis
1-6 cr. Graduate.
For benefit of superior graduate students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

EXCEDUC 999 Independent Reading
1-3 cr. Graduate.
For benefit of superior graduate students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Spring 2015, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

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**Faculty**

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<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
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<tr>
<td>Barbara Bales</td>
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<td>Maggie Bartlett</td>
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<td>Craig Berg</td>
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<td>Angel Hessel</td>
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<td>University of Wisconsin-Milwaukee</td>
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</table>
Advanced Study in Teaching and Learning, Graduate Certificate

This certificate provides individual teachers with the knowledge, skills, and research tools to make evidence-based claims as to their effectiveness in the classroom. The set of five, 3-credit graduate courses prepares professionals with the knowledge base needed to engage in data-driven, action research that draws from the use of formative, benchmark, and summative assessments and leads to effective upgrades in instruction. Certificate completers will be positioned to become school and district leaders having an integrated set of instruction, assessment, and research skills needed to advance student achievement levels in their respective disciplines.

Certificates of Advanced Study in Teaching and Learning may be earned in the following areas:

- Science
- Mathematics
- Reading
- Social Studies
- Interdisciplinary Studies
- English
- Literary Studies
- Adolescent Literature
- Children’s Literature
- Writing
- Second Language Acquisition

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Applicants must have a bachelor’s degree with an undergraduate GPA of 2.75 or a graduate degree with a minimum 3.0 GPA.

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

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

**Credits and Courses**

Five required, 3-credit, graduate-level courses. Total credits: 15

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course I</strong></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>Currins 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A curriculum elective in the disciplinary focus area</td>
<td></td>
</tr>
<tr>
<td><strong>Course II</strong></td>
<td>Select one graduate-level elective in the student’s disciplinary focus area</td>
<td>3</td>
</tr>
<tr>
<td><strong>Course III</strong></td>
<td>Select one of the following discipline-specific advanced methods courses:</td>
<td>3</td>
</tr>
<tr>
<td>Currins 710</td>
<td>Curriculum for Early Adolescents</td>
<td></td>
</tr>
<tr>
<td>Currins 721</td>
<td>Advanced Problems in the Teaching of Social Studies</td>
<td></td>
</tr>
<tr>
<td>Currins 724</td>
<td>Advanced Problems in Science Education</td>
<td></td>
</tr>
<tr>
<td>Currins 730</td>
<td>Mathematics in Elementary Education</td>
<td></td>
</tr>
<tr>
<td>Currins 731</td>
<td>Mathematics in the Secondary School</td>
<td></td>
</tr>
<tr>
<td>Currins 734</td>
<td>Advanced Problems in the Teaching of Foreign Languages</td>
<td></td>
</tr>
<tr>
<td>Currins 746</td>
<td>Advanced Reading Education</td>
<td></td>
</tr>
<tr>
<td>Currins 751</td>
<td>Language Arts in the Elementary School</td>
<td></td>
</tr>
<tr>
<td>Currins 753</td>
<td>Teaching Language and Composition</td>
<td></td>
</tr>
<tr>
<td>Currins 754</td>
<td>Teaching Literature</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other courses as approved by the certificate program committee</td>
<td></td>
</tr>
<tr>
<td><strong>Course IV</strong></td>
<td>Currins/Ed Psy 725 Improving Teaching and Learning with Classroom-Based Assessments</td>
<td>3</td>
</tr>
<tr>
<td><strong>Course V — Capstone</strong></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>Currins 705</td>
<td>Research in Schools and Communities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A capstone elective in the disciplinary focus area</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 15

**Certificate Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. Transfer credits will be considered only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the first three courses that constitute the certificate program. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

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

**Articulation with Degree Programs**

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

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

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

**Arts Integration and Learning, Undergraduate Certificate (School of Education)**

The Certificate in Arts Integration and Learning is a 15 credit, multidisciplinary program offered jointly by the Department of Art and Design in the Peck School of the Arts and the Department of Curriculum & Instruction in the School of Education.

This program is designed to give undergraduate and post baccalaureate students an understanding of best practices in arts integration with an emphasis on project based learning through students’ capstone experience. The Certificate is for students in any teacher certification program at the University of Wisconsin-Milwaukee, but especially for Early Childhood Education; Middle Childhood/Early Adolescence Education; Art, Music, Dance, or Theatre Education students who wish to complement their major with an additional concentration in Arts Integration.

The Certificate in Arts Integration and Learning is also open to all students seeking a Bachelor’s degree or post baccalaureate certification from UWM and to students who previously received a Bachelor’s degree with teacher certification from UWM or any other accredited college or university. Additionally, the Certificate is open to non-degree students who have a strong interest in this area. Students completing...
the Certificate not in conjunction with a degree must be admitted to the university as non-degree students and meet regular university admission requirements. Students completing the Certificate not in conjunction with a degree are not eligible for financial aid.

Requirements

Students must achieve a grade point average of 2.5 or above in all courses counting towards the Certificate. Courses counting for the Certificate may not be taken on a credit/no credit basis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Teaching and Learning Course</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Capstone</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Teaching and Learning Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 730</td>
<td>Assistive and Instructional Technology for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 750</td>
<td>Computer Applications in Occupational Therapy Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

The Certificate in Assistive Technology and Accessible Design requires completion of a minimum 15 credits as listed below. In special circumstances, the ATAD coordinator and advisory board may approve substitution of an equivalent Assessment or Intervention course relevant to assistive technology and adaptive design as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 620</td>
<td>Introduction to Assistive and Rehabilitation Technology (must be taken at graduate level)</td>
<td>3</td>
</tr>
</tbody>
</table>

Assessment

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 765</td>
<td>Assistive Technology Service Delivery in Schools</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 715</td>
<td>Assessment and Intervention in Augmentative and Alternative Communication</td>
<td>3</td>
</tr>
</tbody>
</table>
Autism Spectrum Disorders, Graduate Certificate

The Graduate Autism Spectrum Disorder Certificate program is an interdisciplinary certificate where the broad goal is to provide a foundation in the causes and characteristics of ASD, and interventions in various areas (e.g., communication, sensory needs, etc.). In addition, this certificate addresses challenges with assessment and early identification of children with ASD in diverse communities. The elective courses address areas related to addressing the unique needs of individuals on the spectrum, such as their language development needs and behavioral needs.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
• Applicants with a graduate degree must have a minimum 3.0 graduate grade point average.

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

Credits and Courses
This certificate program requires 15-18 credits. Students take two required courses and then, in consultation with the Program Coordinator, they choose to take their remaining 9 elective credits, either within the Communication, Psychology, or Exceptional Education strand. Students who do not choose to focus on a specific strand would take courses across strands equaling 9 elective credits total. Students may choose to add an additional 3 credit field/clinical course to their certificate program, bringing the total number of credits to 18.

Tentative List of Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 760</td>
<td>Foundations of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 761</td>
<td>Methods for Working with Individuals with Autism</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select one of the following options:

Option 1:
Select 3 elective courses within one strand below to complete the certificate

Option 2:
Select 3 elective courses across strands below to gain a broader experience

Option 3:
Select elective courses either within one strand or across strands and add a field course from the list of optional field courses below

Total Credits 15-18

Strand #1 – Communication

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 706</td>
<td>Language Assessment and Intervention: Birth to 5 years (Spring)</td>
<td>2</td>
</tr>
</tbody>
</table>
Assessment and Intervention in Augmentative and Alternative Communication (Spring) 3

COMSDIS 717
Special Populations in Communication Disorders (Spring) 2

COMSDIS 720
Advanced Clinical Practice in Speech-Language Pathology (Offered all semesters; previously 902) 1-3

COMSDIS 799
Independent Studies (Offered all semesters) 1-3

Total Credits 9-13

Strand #2 – Psychology

Code Title Credits
PSYCH 502 Applied Behavior Analysis (Fall) 4
PSYCH 714 Conditioning and Learning (Fall) 3
PSYCH 736 Functional Assessment and Intervention (Every other Spring) 3

Total Credits 10

Note: Students choosing the Psychology Strand will complete a total of 16 cr for the certificate.

Strand #3 – Exceptional Education

Code Title Credits
EXCEDUC 671 Behavior Support & Intervention for Mid/High Students with Disabilities (U/G) (Fall) 3
EXCEDUC 762 Academic/Social Challenges of Individuals with ASD: Adv. Interventions (course to be approved) 3
EXCEDUC 775 Field Work: Individuals with Autism Spectrum Disorders (All semesters) 1 3

Total Credits 9

1 Prerequisites EXCEDUC 760 & EXCEDUC 761; may be taken concurrently with EXCEDUC 761.

Optional 3 Credit Field Course

Code Title Credits
Select one of the following: 3
EXCEDUC 775 Field Work: Individuals with Autism Spectrum Disorders (All semesters) 1
PSYCH 692 Field Placement in Psychology (U/G) (Fall)

Total Credits 3

1 Prerequisites EXCEDUC 760 & EXCEDUC 761; may be taken concurrently with EXCEDUC 761.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as the course being substituted. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

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

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

Autism Spectrum Disorders, Undergraduate Certificate

The Autism Spectrum Certificate program will train students to help persons with an autism spectrum disorder (ASD) in numerous settings. Potential students include therapists and family members working with children at home, special and general education teachers working with children in school settings, and job coaches working with young adults and adults in the work place.

Through courses, field experiences, and other planned learning experiences, students will critically examine the characteristics, etiology, and prevalence of ASD and related disorders; understand assessment, diagnosis, and intervention; learn how to work with family members of individuals with ASD; understand the language, communication, and social needs of individuals with ASD; and learn to apply interventions.

Requirements

Code Title Credits
Required Core Courses 6
Field Experience Requirement 3
Electives 6
Total Credits 15
Certificate Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 560</td>
<td>Foundations of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 561</td>
<td>Methods for Working with Individuals with Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>Field Experience</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following or another field experience approved by the faculty advisor:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 585</td>
<td>Supervised Practicum in Child and Youth Care</td>
<td></td>
</tr>
<tr>
<td>PSYCH 292</td>
<td>Psychology Field Placement-Lower Division</td>
<td></td>
</tr>
<tr>
<td>PSYCH 692</td>
<td>Field Placement in Psychology</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Choose two:</td>
<td>6</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td></td>
</tr>
<tr>
<td>ED PSY 575</td>
<td>Infant and Early Childhood Assessment</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 302</td>
<td>American Sign Language II</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 303</td>
<td>American Sign Language III</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 304</td>
<td>American Sign Language IV</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 305</td>
<td>American Sign Language V</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 306</td>
<td>American Sign Language VI</td>
<td></td>
</tr>
<tr>
<td>PSYCH 214</td>
<td>Introduction to Conditioning and Learning</td>
<td></td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYCH 502</td>
<td>Applied Behavior Analysis</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 351</td>
<td>Clinical Process II: Child Language Disorders</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting

• Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement).
• Come prepared with questions or topics for discussion.
• Make a list of courses you think you should take.
• Investigate opportunities to prepare for the job you want.
• Keep a record of your academic progress.
• Understand you are ultimately responsible for creating your educational, life, and career plans.
• Maintain honest and open communication with your advisor.
• Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Transfer Student Not Yet Enrolled at UWM?

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

Bilingual Education (Supplemental), Minor

The University of Wisconsin-Milwaukee offers coursework for a supplemental certification in Bilingual Education. This program is designed for individuals who wish to teach in a classroom in which two languages (English and another language) are used for instruction. Students wishing to pursue this certification must be in process of or already have a certification.

Requirements

Professional Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 503</td>
<td>Assessment Issues in Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 546</td>
<td>Language, Content, and Comprehensible Input</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 655</td>
<td>Applied Educational Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>Student Teaching</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CURRINS 442</td>
<td>Student Teaching in Bilingual Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 445</td>
<td>Seminar in Language Education</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>
How to Prepare for an Advising Meeting

• Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement).
• Come prepared with questions or topics for discussion.
• Make a list of courses you think you should take.

Additional Requirements for Certification

• Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
• Undergraduate students must meet the graduation requirements for their primary certification.
• Program Portfolio - based on the 10 WI Teacher Standards.

Benchmarks

Student Teaching
Prior to requesting/being assigned a student teaching placement, students must:

• Demonstrate Foreign Language Proficiency - A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor.
• Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. (http://uwm.edu/education/academics/clinical-experiences)

To be approved, students must ALSO meet the following criteria:

• Be admitted to the School of Education
• Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student’s faculty advisor.
• Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.
• Have a minimum 2.75 GPA in all content area and professional education courses.
• Removal of all F and/or I (incomplete) grades.
• TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
• Criminal Background Check submitted to the Office of Clinical Experience

Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

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Curriculum and Instruction, MS: Cultures and Communities Education

The Department of Curriculum and Instruction offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements to be considered for admission to the program.
Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
The minimum degree requirement is 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 12 credits in Curriculum and Instruction core areas</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Currins 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>Currins 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>Currins 716</td>
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<td>1-4</td>
</tr>
<tr>
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<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
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<tr>
<td>or Currins 774</td>
<td>College Teaching</td>
<td></td>
</tr>
</tbody>
</table>

Select 12 to 15 credits in a focus area approved by the student's major professor 12-15

Select one of the following: 3-6

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<tr>
<td>Currins 800</td>
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<td>Currins 890</td>
<td>Master's Research or Thesis (3-6 credits)</td>
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Cultures and Communities Education Concentration

<table>
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<tr>
<td>Educ 882</td>
<td>Multicultural Studies Practicum</td>
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<td>Focus Area Courses (minimum of 12 credits)</td>
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<tr>
<td>Anthro 540</td>
<td>Applications of Anthropology</td>
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<tr>
<td>Sociol 440</td>
<td>Sociology of the Family</td>
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<tr>
<td>Sociol 448</td>
<td>Sociology of Children and Adolescents</td>
<td>3</td>
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<tr>
<td>Hist 449</td>
<td>Popular Culture in America, 1800 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>Hist 451</td>
<td>History of Wisconsin</td>
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<tr>
<td>English 404</td>
<td>Language, Power, and Identity</td>
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</tr>
<tr>
<td>English 627</td>
<td>Seminar in Literature and Culture:</td>
<td>3</td>
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<td>English 631</td>
<td>Seminar in African-American Literature:</td>
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<tr>
<td>Maltt 704</td>
<td>Seminar in Cultural Studies:</td>
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<td>Ed Pol 560</td>
<td>Education and Hispanics</td>
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<td>Ed Pol 610</td>
<td>Reproduction of Minority Communities</td>
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<td>Ed Pol 620</td>
<td>History of the Education of African Americans</td>
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</tr>
<tr>
<td>Ed Pol 621</td>
<td>History of Native Education and Policy Development</td>
<td>3</td>
</tr>
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<td>Ed Pol 625</td>
<td>Race Relations in Education</td>
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<tr>
<td>Ed Pol 705</td>
<td>Sociology of Education and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>Ed Pol 823</td>
<td>Multicultural Education</td>
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<tr>
<td>Ed Pol 833</td>
<td>Seminar in Multicultural Education</td>
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</table>

Program Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

Certifications
Graduate students seeking initial teacher certification or added certification(s) can arrange their master’s degree program so that a portion of the credits earned towards the master’s degree can also serve as partial fulfillment of teacher certification requirements

Curriculum and Instruction, MS: Early Childhood Education

The Department of Curriculum and Instruction offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements to be considered for admission to the program.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
Credits and Courses

The minimum degree requirement is 30 credits, including:

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>CURREN 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
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</table>

Select 12 to 15 credits in a focus area approved by the student's major professor 12-15

Select one of the following: 3-6

<table>
<thead>
<tr>
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<tr>
<td>CURREN 800</td>
<td>Master's Seminar in Curriculum and Instruction (3 credits)</td>
<td></td>
</tr>
<tr>
<td>CURREN 890</td>
<td>Master's Research or Thesis (3-6 credits)</td>
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Early Childhood Education Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>CURREN 702</td>
<td>Curriculum Problems and Practices in Early Childhood Education</td>
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<tr>
<td>CURREN 703</td>
<td>Advanced Curriculum in Early Childhood Education</td>
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<tr>
<td>CURREN 802</td>
<td>Recent Research in the Field of Early Childhood Education</td>
<td>4</td>
</tr>
<tr>
<td>CURREN 803</td>
<td>Reflective Practice: Urban Early Childhood Teaching</td>
<td>4</td>
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</tbody>
</table>

Total Credits 16

Program Requirements

Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

Curriculum and Instruction, MS: English Education: Creative Writing

The Department of Curriculum and Instruction offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline, call the Registrar’s Office at (414) 229-3800 or submit a contact form online.

Admission

An applicant must meet Graduate School requirements to be considered for admission to the program.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

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Credits and Courses

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English Education: Creative Writing Concentration

A minimum of 21 credits, including a 3-credit Currians elective (e.g. language arts, reading, young adult literature, children's literature, curriculum), and 12 credits in one focus area in English (at least one course should be at the 800 level, two at the 700 level).
Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements to be considered for admission to the program.

Program Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

Certifications
Graduate students seeking initial teacher certification or added certification(s) can arrange their master’s degree program so that a portion of the credits earned towards the master’s degree can also serve as partial fulfillment of teacher certification requirements.

Curriculum and Instruction, MS: English Education: Language and Linguistics

The Department of Curriculum and Instruction offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

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Admission
An applicant must meet Graduate School requirements to be considered for admission to the program.

Program Requirements

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

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

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Select 12 to 15 credits in a focus area approved by the student’s major professor

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English Education: Language and Linguistics Concentration

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CURRINS 753</td>
<td>Teaching Language and Composition</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 754</td>
<td>Teaching Literature</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS Elective (at least 3 credits)</td>
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<td></td>
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</tbody>
</table>

E.g. language arts, reading, young adult literature, children's literature, curriculum

At least 12 credits required from the list below

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<tr>
<td>ENGLISH 634</td>
<td>Seminar in English Language Studies:</td>
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<tr>
<td>ENGLISH 702</td>
<td>English Graduate Institute:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 761</td>
<td>Discourse Analysis</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 763</td>
<td>Morphology</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 764</td>
<td>Sociolinguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 765</td>
<td>Pragmatics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 766</td>
<td>Theory of Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 768</td>
<td>Linguistic Perspectives on Literature</td>
<td>3</td>
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<tr>
<td>ENGLISH 769</td>
<td>Topics in Linguistics</td>
<td>3</td>
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<td>ENGLISH 805</td>
<td>Seminar in English Language:</td>
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<td>ENGLISH 806</td>
<td>Seminar in Linguistics</td>
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<tr>
<td>ENGLISH 878</td>
<td>Seminar in Feminist Critical Theory:</td>
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</table>
The minimum degree requirement is 30 credits, including:

Credits and Courses
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or CURRINS 774 College Teaching

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English Education: Literary Studies Concentration
A minimum of 21 credits, including a 3-credit Currins elective (e.g. language arts, reading, young adult literature, children’s literature, curriculum), and 12 credits in one focus area in English (at least one course should be at the 800 level, two at the 700 level)

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Focus Area Courses

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<th>Credits</th>
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<tr>
<td>CURRINS 649</td>
<td>Children’s Literature</td>
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<tr>
<td>CURRINS 650</td>
<td>Reading Interests of Adolescents</td>
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<tr>
<td>ENGLISH 621</td>
<td>Seminar in the Literature of England:</td>
<td>3</td>
</tr>
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<td>ENGLISH 623</td>
<td>Seminar in American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 624</td>
<td>Seminar in Modern Literature:</td>
<td>3</td>
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<td>ENGLISH 625</td>
<td>Seminar in Literary History:</td>
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</tr>
<tr>
<td>ENGLISH 626</td>
<td>Seminar in Critical Theory:</td>
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<td>ENGLISH 627</td>
<td>Seminar in Literature and Culture:</td>
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<td>Seminar in Literature by Women:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 629</td>
<td>Seminar in Literature and Sexuality:</td>
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<td>ENGLISH 632</td>
<td>Seminar in American Indian Literature:</td>
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<td>ENGLISH 720</td>
<td>Modern Literary Theory:</td>
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<td>ENGLISH 737</td>
<td>Literature and Aesthetics:</td>
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<td>ENGLISH 743</td>
<td>Film Studies:</td>
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<tr>
<td>ENGLISH 768</td>
<td>Linguistic Perspectives on Literature:</td>
<td>3</td>
</tr>
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<td>ENGLISH 771</td>
<td>Literature of the English Renaissance:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 772</td>
<td>Restoration and Eighteenth-Century Literature:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 774</td>
<td>Literature in Victorian England:</td>
<td>3</td>
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<td>ENGLISH 775</td>
<td>Modern English Literature:</td>
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<td>ENGLISH 776</td>
<td>Women Writers:</td>
<td>3</td>
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<tr>
<td>ENGLISH 777</td>
<td>American Literature to 1830:</td>
<td>3</td>
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<tr>
<td>ENGLISH 778</td>
<td>Native American Literature:</td>
<td>3</td>
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<td>ENGLISH 779</td>
<td>American Literature, 1830-1900:</td>
<td>3</td>
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<td>ENGLISH 780</td>
<td>African American Literature:</td>
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<td>Modern American Literature:</td>
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<td>Contemporary Literature:</td>
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<td>ENGLISH 783</td>
<td>World Literature in English:</td>
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<td>ENGLISH 784</td>
<td>Topics in Transnational Literature:</td>
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<td>ENGLISH 814</td>
<td>Seminar in Irish Literature:</td>
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</tr>
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<td>ENGLISH 822</td>
<td>Seminar in Poetry:</td>
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<td>ENGLISH 824</td>
<td>Seminar in Special Topics in Literature:</td>
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<td>ENGLISH 825</td>
<td>Seminar in Major Figures:</td>
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<td>ENGLISH 827</td>
<td>Seminar in Contemporary Literature:</td>
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<td>ENGLISH 828</td>
<td>Seminar in Comparative Literature:</td>
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</table>
ENGLISH 843 Seminar in Renaissance Prose and Poetry: 3
ENGLISH 845 Seminar in Shakespeare: 3
ENGLISH 861 Seminar in Romantic Literature: 3
ENGLISH 862 Seminar in Victorian Literature: 3
ENGLISH 871 Seminar in African American Literature: 3
ENGLISH 872 Seminar in Women Writers: 3
ENGLISH 874 Seminar in World Literature in English: 3
ENGLISH 875 Seminar in Modern Literature: 3
ENGLISH 878 Seminar in Feminist Critical Theory: 3
ENGLISH 879 Seminar in Native American Literature: 3
ENGLISH 881 Seminar in Colonial American Literature: 3
ENGLISH 882 Seminar in Nineteenth-Century American Literature: 3
ENGLISH 883 Seminar in Twentieth-Century American Literature: 3
ENGLISH 885 Seminar in Critical Theory: 3

Program Requirements

Major Professor as Advisor
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Curriculum and Instruction, MS: English Education: Modern Studies
The Department of Curriculum and Instruction offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

Admission
Application Deadlines
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Credits and Courses
The minimum degree requirement is 30 credits, including:

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<tbody>
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<td>CURRINS 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
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<tr>
<td>CURRINS 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
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<td>1-4</td>
</tr>
<tr>
<td>CURRINS 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>or CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
<tr>
<td>Select 12 to 15 credits in a focus area approved by the student's major professor</td>
<td>12-15</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td></td>
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<td>CURRINS 800</td>
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<td>3-6</td>
</tr>
<tr>
<td>CURRINS 890</td>
<td>Master's Research or Thesis (3-6 credits)</td>
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</table>

English Education: Modern Studies Concentration
A minimum of 21 credits, including a 3-credit Currins elective (e.g. language arts, reading, young adult literature, children's literature, curriculum), and 12 credits in one focus area in English (at least one course should be at the 800 level, two at the 700 level).

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<tbody>
<tr>
<td>CURRINS 753</td>
<td>Teaching Language and Composition</td>
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</tr>
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<td>CURRINS 754</td>
<td>Teaching Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Focus Area Courses:

ENGLISH 626 Seminar in Critical Theory: 3
ENGLISH 720 Modern Literary Theory 3
ENGLISH 737 Literature and Aesthetics 3
ENGLISH 740 Approaches to the Modern I 3
ENGLISH 741 Approaches to the Modern II 3
ENGLISH 742 Media Culture 3
ENGLISH 743 Film Studies: 3
ENGLISH 775 Modern English Literature: 3
ENGLISH 824 Seminar in Special Topics in Literature: 3
ENGLISH 875 Seminar in Modern Literature: 3
ENGLISH 876 Seminar in Media Culture: 3
Program Requirements

Major Professor as Advisor
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Curriculum and Instruction, MS: English Education: Professional Writing

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

English Education: Professional Writing Concentration

Required Courses

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<td>3</td>
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<td>Teaching Literature</td>
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Focus Area Courses

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<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 433</td>
<td>Creative Nonfiction for Publication</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 434</td>
<td>Editing and Publishing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 706</td>
<td>Seminar in Professional Writing Theory and Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 707</td>
<td>Writing for Business Management</td>
<td>2-3</td>
</tr>
<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 710</td>
<td>Advanced Project Management for Professional Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Professional Writing; Topics in Public and Professional Writing:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement,Professional Writing Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 855</td>
<td>Seminar in Public Rhetorics and Community Engagement</td>
<td>3</td>
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Curriculum and Instruction, MS: English Education: Rhetoric and Composition

The Department of Curriculum and Instruction offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in teaching reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

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Select 12 to 15 credits in a focus area approved by the student’s major professor

Select one of the following:

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<td>Master’s Research or Thesis (3-6 credits)</td>
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English Education: Rhetoric and Composition Concentration

Required Courses (6 graduate credits)

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A 3-credit CURRINS elective

E.g. language arts, reading, young adult literature, children's literature, curriculum

Minimum of 12 graduate credits required from the list below

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<tr>
<td>ENGLISH 633</td>
<td>Seminar in Rhetoric and Writing; Seminar in Rhetoric and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 704</td>
<td>Teaching Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 751</td>
<td>History of Rhetoric II</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 752</td>
<td>Essay as Genre</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 754</td>
<td>Post-Secondary Composition-Topics in Pedagogical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 758</td>
<td>Writing Workshop in Rhetoric and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 812</td>
<td>Seminar in Theories of Composition and Rhetoric</td>
<td>3</td>
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<td>Seminar in Contemporary Rhetorical Theory</td>
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<td>Seminar in College Writing Pedagogy</td>
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<td>ENGLISH 878</td>
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Mathematics Teacher Leadership Concentration

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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Course (3 credits)</td>
<td>Mathematics Instructional Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (minimum 12 credits)

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<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 520</td>
<td>Developing Mathematical Thinking in Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 560</td>
<td>Improving Mathematics Teaching and Learning:</td>
<td>1-3</td>
</tr>
<tr>
<td>CURRINS 561</td>
<td>Issues in Elementary and Middle School Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 579</td>
<td>Current Topics in Curriculum and Instruction:</td>
<td>1-3</td>
</tr>
<tr>
<td>CURRINS 580</td>
<td>Mathematics Education:</td>
<td>1-3</td>
</tr>
<tr>
<td>CURRINS 624</td>
<td>Instructional Trajectories for Fraction Concepts and Operations</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 625</td>
<td>Principles and Practices of Teaching Geometry and Geometric Thinking</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 626</td>
<td>Principles and Practices of Teaching Algebraic Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 629</td>
<td>Change and Change Strategies in Education</td>
<td>1-4</td>
</tr>
<tr>
<td>CURRINS 720</td>
<td>Curriculum and Standards for School Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 725</td>
<td>Improving Teaching and Learning with Classroom-Based Assessments</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 730</td>
<td>Mathematics in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 731</td>
<td>Mathematics in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 779</td>
<td>Current Topics in Curriculum and Instruction:</td>
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<tr>
<td>CURRINS 830</td>
<td>Seminar in Elementary School Mathematics Education</td>
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Curriculum and Instruction, MS: Reading Education

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The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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The minimum degree requirement is 30 credits, including:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 12 credits in Curriculum and Instruction core areas</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>CURRINS 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>1-4</td>
</tr>
<tr>
<td>CURRINS 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>or CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
</tbody>
</table>
CURRINS 714  Analysis of Instruction to Improve Teaching and Learning  3
or CURRINS 774  College Teaching

Select 12 to 15 credits in a focus area approved by the student’s major professor  12-15

Select one of the following:  3-6
CURRINS 800  Master's Seminar in Curriculum and Instruction (3 credits)
CURRINS 890  Master's Research or Thesis (3-6 credits)

Reading Education Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 501</td>
<td>Language Acquisition for Children of Diverse Backgrounds</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 508</td>
<td>Language and Urban Schooling</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 649</td>
<td>Children's Literature</td>
<td>1-4</td>
</tr>
<tr>
<td>CURRINS 650</td>
<td>Reading Interests of Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 655</td>
<td>Applied Educational Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 846</td>
<td>Seminar in Developmental Reading:</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humansities, the Arts, Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

Certifications
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Curriculum and Instruction, MS: Science Education

The Department of Curriculum and Instruction offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

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Admission Requirements

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Credits and Courses

The minimum degree requirement is 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 701</td>
<td>Curriculum Planning and Ideologies</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 705</td>
<td>Research in Schools and Communities</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 716</td>
<td>Teaching in Urban &amp; Diverse Communities</td>
<td>1-4</td>
</tr>
<tr>
<td>CURRINS 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>or CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
</tbody>
</table>

Select 12 to 15 credits in a focus area approved by the student’s major professor  12-15

Select one of the following:  3-6
CURRINS 800  Master's Seminar in Curriculum and Instruction (3 credits)
CURRINS 890  Master's Research or Thesis (3-6 credits)

Science Education Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>1-3</td>
</tr>
<tr>
<td>CURRINS 518</td>
<td>Science Methods I: Middle/Secondary Methods and Fieldwork</td>
<td>3-6</td>
</tr>
<tr>
<td>CURRINS 519</td>
<td>Science Methods II: Middle/Secondary Methods and Fieldwork</td>
<td>3-6</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 570</td>
<td>Improving Science Teaching and Learning</td>
<td>1-3</td>
</tr>
<tr>
<td>ED PSY 579</td>
<td>Current Topics in Educational Psychology</td>
<td>1-3</td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humansities, the Arts, Foreign Language</td>
<td>3</td>
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</tr>
</thead>
<tbody>
<tr>
<td>EXEDUC 536</td>
<td>Inclusion for Secondary Science and Math Educators</td>
<td>1</td>
</tr>
<tr>
<td>EXEDUC 537</td>
<td>Math and Science Methods for All Learners</td>
<td>1</td>
</tr>
</tbody>
</table>

**Program Requirements**

**Major Professor as Advisor**

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</tr>
<tr>
<td>CURRINS 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>or CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
</tbody>
</table>

Select 12 to 15 credits in a focus area approved by the student's major professor

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 800</td>
<td>Master’s Seminar in Curriculum and Instruction (3 credits)</td>
<td>3-6</td>
</tr>
<tr>
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<td>Master’s Research or Thesis (3-6 credits)</td>
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</tbody>
</table>

**Urban Social Studies Concentration**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 721</td>
<td>Advanced Problems in the Teaching of Social Studies</td>
<td>3</td>
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</tbody>
</table>

Minimum of 12 graduate credits required from the list below

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>URB STD 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 983</td>
<td>Contemporary Urban Social Structure and Change</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 913</td>
<td>Seminar in Urban Political Process</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 905</td>
<td>Seminar: Selected Topics in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 934</td>
<td>Seminar: Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 900</td>
<td>Seminar on U.S. History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 980</td>
<td>Growth of Urban Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 901</td>
<td>Seminar: Urban Social Structure</td>
<td>3</td>
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</tr>
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<tr>
<td>or Currins 774</td>
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<td></td>
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<td></td>
<td>Select one of the following:</td>
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</tr>
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<td>Currins 800</td>
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**Education, BS: Early Adolescence - Adolescence Level: Math**
The Mathematics Education Program is available for students who plan to teach mathematics in 6th through 12th grade. Mathematics Program students gain real world experience in the classroom through student teaching or on-the-job experiences at area schools. Students who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching mathematics subject areas in those grades. Students at this level of certification may add the following licenses while pursuing or after obtaining their Mathematics licensure as their initial certification:

- Bilingual
- English as a Second Language
- World Languages

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currins 774</td>
<td>Core requirements</td>
<td></td>
</tr>
<tr>
<td>or Currins 774</td>
<td>College Teaching</td>
<td></td>
</tr>
</tbody>
</table>

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currins 800</td>
<td>Master’s Seminar in Curriculum and Instruction (3 credits)</td>
<td></td>
</tr>
<tr>
<td>Currins 890</td>
<td>Master’s Research or Thesis (3-6 credits)</td>
<td></td>
</tr>
</tbody>
</table>

**GER Competency Requirements**

- **Oral and Written Communication, Part A**  
  English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better
- **Oral and Written Communication, Part B**  
  Complete a GER-OWCB approved advanced course with a grade of C or better

**Quantitative Literacy, Part A**

- **Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better**

**Quantitative Literacy, Part B**

- Complete a GER-QLB approved advanced course with a grade of C or better

**Foreign Language**

- Complete one of the following:
  - 2 consecutive semesters of college instruction in a single foreign language with passing grades
  - 2 consecutive years of high school instruction in a single foreign language with passing grades
  - Demonstrate language proficiency on approved exam

**GER Distribution Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
Select one approved GER-A designated course

**Humanities**

Select two approved GER-HU designated courses

**Social Sciences**

Select two approved GER-SS designated courses

**Natural Sciences**

Select one approved GER-NS or GER-NS+ designated course

Select one approved GER-NS+ designated course, which includes a lab component

**Cultural Diversity**

Select one approved GER-CD designated course

Total Credits 12-42

1 Program-specific requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (i.e., literature, biology, political science, etc.) to be used to fulfill some GERs in order to meet PI 34 Statutory Requirements.

---

### Program Admission Requirements (p. 573)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU, fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>or CURRINS 328</td>
<td>Introduction to Teaching Science in Middle and High School</td>
<td></td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>Choose one: 2</td>
<td>American Indian Peoples of Wisconsin (GER-CD, SS)</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, SS)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 12

2 Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class. Program may allow fulfillment of Act 31 with a 1-day workshop.

### Content Area

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one of the following 2 courses:</td>
<td></td>
<td>4-5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I (QL-B, GER-NS)</td>
<td></td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I (QL-B, GER-NS)</td>
<td></td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 222</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Professional Education Requirements

#### MACSTEP Sequence - Milwaukee Area Collaborative Secondary Science (and Math) Teacher Education Program. Formal admission to the School of Education required. A grade of C or better must be met for all professional requirements, including student teaching.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CURRINS 332</td>
<td>Teaching of Mathematics: Middle School</td>
<td>3</td>
</tr>
</tbody>
</table>

---

3 May only choose the course that was not taken previously.
Application to the Mathematics Education program requires satisfactory completion of the requirements listed below. For more information about application process, visit our website at http://uwm.edu/education/

**Program Admission Requirements**

- Basic skills test: Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, or GRE score must be within ten years of admission term to academic program. Please see your academic advisor for additional information.
- Oral and Written Communication (OWC) Part A: Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or equivalent with a grade of C or better.
- Quantitative Literacy (QL) Part A: Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 102, MATH 103, MATH 105, MATH 108, MATH 175, or an equivalent with a grade of C or better.
- Completion of CURRINS 300, Introduction to Teaching, or CURRINS 328, Introduction to Teaching Science in Middle and High School, with a grade of C or better.
- Completion of Common 103 with a grade of C or better.
- A 2.5 minimum cumulative GPA in all UWM and transfer courses at the time of admission application.
- Completion of the following at the time of admission application: [MATH 231, MATH 232, and MATH 233, or an equivalent sequence of calculus and analytical geometry] plus [MATH 234 or MATH 240 or equivalent courses] with a 2.75 GPA in these all faculty-approved Math courses 300 level and above.
- A minimum of 58 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- Meeting with faculty advisor to review admission application. Faculty signature required on application.

**Benchmarks**

**Student Teaching**

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/ (http://uwm.edu/education/academics/clinical-experiences).

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: Mathematics: Content Knowledge #5161;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences; and
- Criminal Background Check submitted to the Office of Clinical Experiences.

**Advance to Major**

**Program Admission Requirements**

Application to the Mathematics Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at http://uwm.edu/education/academics/mathematics/.

- Completion of edTPA (Teacher Performance Assessment) required for certification.

### Student Teaching (Spring) 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 431</td>
<td>Student Teaching in Mathematics</td>
<td>9</td>
</tr>
<tr>
<td>CURRINS 432</td>
<td>Student Teaching Mathematics Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits** 36

4 Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 573) for details.

**Additional Requirements for Graduation**

- A minimum cumulative GPA of 2.5.
- A minimum GPA of 2.75 in all your mathematics content area courses and a minimum 2.75 GPA in all your professional education courses.
- Satisfactory completion of a minimum 128 credits.
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.
- Completion of edTPA (Teacher Performance Assessment) required for certification.

**Undergraduate Advising**

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soeinfo@uwm.edu

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Honors in the Department of Teaching and Learning
Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

Honors in the School of Education
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Early Adolescence - Adolescence Level: Science
The Science Education program is available for students who plan to teach middle or high school science. Science Education students gain real world experience in the classroom through student teaching or on-the-job experiences at area schools. Students who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching science subject areas in those grades. Students at this level of certification may add the following licenses while pursuing or after obtaining their Science licensure as their initial certification:

- Bilingual
- English as a Second Language
- World Languages

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University General Education Requirements*</td>
<td></td>
<td>9-42</td>
</tr>
<tr>
<td>Program Core</td>
<td></td>
<td>20-25</td>
</tr>
<tr>
<td>Content Area</td>
<td></td>
<td>54-69</td>
</tr>
<tr>
<td>Professional Education Requirements</td>
<td></td>
<td>37-39</td>
</tr>
<tr>
<td>Electives (to ensure 128 at time of graduation, 2 must be in Mathematics) *</td>
<td></td>
<td>0-8</td>
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</tbody>
</table>

Minimum credits for degree

128

* Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER Competency Requirements</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Oral and Written Communication, Part A

English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better

Oral and Written Communication, Part B

Complete a GER-OWCB approved advanced course with a grade of C or better

Quantitative Literacy, Part A

Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better

Quantitative Literacy, Part B 

Complete a GER-QLB approved advanced course with a grade of C or better

Foreign Language

Complete one of the following:

- 2 consecutive semesters of college instruction in a single foreign language with passing grades

Credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.
2 consecutive years of high school instruction in a single foreign language with passing grades
Demonstrate language proficiency on approved exam

GER Distribution Requirements

Arts
Select one approved GER-A designated course

Humanities
Select two approved GER-HU designated courses

Social Sciences
Select two approved GER-SS designated courses

Natural Sciences
Select one approved GER-NS or GER-NS+ designated course

Cultural Diversity
Select one approved GER-CD designated course

Total Credits
9-42

Program-specific requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (i.e. literature, biology, political science, etc) be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements.

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU, fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 328</td>
<td>Introduction to Teaching Science in Middle and High School (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics

| MTHSTAT 215 | Elementary Statistical Analysis (QL-B, GER-NS) | 6       |

Select a MATH elective to satisfy another 3 credits.

Minority Group Relations (Act 31)

| ANTHRO 213 | American Indian Peoples of Wisconsin (GER-CD, GER-SS) | 3       |
| ENGLISH 276 | Introduction to American Indian Literature: (GER-CD, GER-HU) | 3       |
| AIS 203 | Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS) | 3       |
| HIST 263 | North American Indian History Since 1887 (GER-CD, GER-SS) | 3       |

Non-Western History or Contemporary Culture

| CES 210 | Introduction to Conservation and Environmental Science (GER-NS) | 3       |
| CES 471 | Practicum in Natural Resources Management | 3       |

| GEOG 350 | Conservation of Natural Resources (GER-SS) | 3       |

| PHILOS 213 | Introduction to the Philosophy of Science (GER-HU) | 3       |
| PHILOS 324 | Philosophy of Science | 3       |
| PHILOS 335 | Philosophy of Biology | 3       |
| PHILOS 520 | Philosophy of the Natural Sciences | 3       |
| CHEM 502 | Development of Modern Chemistry | 3       |

Total Credits
20-25

Program may allow fulfillment of Act 31 with a 1-day workshop.

Content Area
The selection of at least one major and one minor (highly suggested) should be made in consultation with a faculty advisor prior to applying for admission to the School of Education. Contact your faculty advisor for the "MACSTEP Program Packet," which includes course lists and specific details regarding the majors and minors.

Majors (select at least one)

| Biology | Broad Field Science | 3 |
| Chemistry | Earth and Space Science | |
| Environmental Studies | Life and Environmental Science | |
| Physical Science | Physics | |

Minors (selecting one is highly suggested)

| Biology | Earth and Space Science | |
| Chemistry | Physics | |

The Broad Field Science major consists of 54 credits in science, including:
- 14 credits in each of the following: biology, chemistry, earth, and physics
- 8 credits in each of the remaining science areas
- Electives to be selected in consultation with a faculty advisor

Majors can earn a certification in another subject (biology, chemistry, physics, and earth and space science) if they have 15 credits in that subject area.

Professional Education Requirements
MACSTEP Sequence - Milwaukee Area Collaborative Secondary Science (and Math) Teacher Education Program. Formal admission to the School of Education required. A grade of C or better must be met for all professional requirements, including student teaching.

Summer

| CURRINS 510 | Cooperative Strategies for Pre and Early Adolescents | 2 |
| CURRINS 518 | Science Methods I: Middle/Secondary Methods and Fieldwork | 3 |
Program Admission Requirements

Application to the Science Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: [http://uwm.edu/education/academics/science/](http://uwm.edu/education/academics/science/).

- **Pre-Professional Skills Test:** Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.
- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 103, MATH 105, MATH 175, or an equivalent with a grade of C or better.

**Advance to Major**

**Student Teaching**

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at [uwm.edu/education/academics/clinical-experiences](http://uwm.edu/education/academics/clinical-experiences).

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your science content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: General Science: Content Knowledge #10435;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences; and
- Criminal Background Check submitted to the Office of Clinical Experiences;

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Review your Advisement Report in PAWS ([http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement](http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement)).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.

---

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 629</td>
<td>Change and Change Strategies in Education</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 541</td>
<td>Assessment in Science and Math I</td>
<td>1</td>
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</tbody>
</table>

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 516</td>
<td>Field Work in Middle School</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 519</td>
<td>Science Methods II: Middle/Secondary Methods and Fieldwork</td>
<td>6</td>
</tr>
<tr>
<td>ED PSY 542</td>
<td>Assessment in Science and Math II</td>
<td>1</td>
</tr>
<tr>
<td>EXCEDUC 536</td>
<td>Inclusion for Secondary Science and Math Educators</td>
<td>1</td>
</tr>
<tr>
<td>EXCEDUC 537</td>
<td>Math and Science Methods for All Learners</td>
<td>1</td>
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</table>

**Spring**

<table>
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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ED PSY 543</td>
<td>Assessment in Science and Math III</td>
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<tr>
<td>EXCEDUC 538</td>
<td>Teaching Math and Science to All Learners</td>
<td>1</td>
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</table>

**Student Teaching (Spring)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 427</td>
<td>Student Teaching in Science</td>
<td>10-12</td>
</tr>
</tbody>
</table>

Total Credits: 37-39

---

4 Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 576) for details.

---

**Benchmarks**

**Student Teaching**

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- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences; and
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---

**Additional Requirements for Graduation**

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

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**Advance to Major**

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- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 103, MATH 105, MATH 175, or an equivalent with a grade of C or better.

- Completion of CURRINS 328, Introduction to teaching Science in Middle and High School, with a grade of C or better.
- A 2.5 minimum cumulative GPA in all UWM and transfer courses at the time of admission application.
- A 2.75 cumulative GPA in all Science content courses.
- A minimum of 58 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- Meeting with faculty advisor to review admission application. Faculty signature required on application.

---

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**Dean's Honor List**
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Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Education, BS: Early Adolescence - Adolescence Level: Social Studies**
The Social Studies Education Program is available for candidates who plan to teach social studies to learners in middle through high school.

Social Studies Education Program candidates are exposed to relevant field experiences at area schools through an initial semester long middle level placement and a year-round high school student teaching placement. Candidates who satisfactorily complete the Social Studies Education Program requirements meet the Wisconsin teacher certification requirements for EAA Licensure (ages 10 to 21).

Undergraduate and/or Post-Baccalaureate candidates who satisfactorily complete the Social Studies Education Program will be granted a Wisconsin EAA license in one or more of the following social studies subject areas: Broad Field Social Studies, Economics, Geography, History, Political Science, Psychology, and Sociology.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements *</td>
<td>15-42</td>
</tr>
<tr>
<td></td>
<td>Program Core</td>
<td>18-21</td>
</tr>
<tr>
<td></td>
<td>Content Area</td>
<td>60</td>
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<tr>
<td></td>
<td>Professional Education Requirements</td>
<td>39-41</td>
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<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>128</td>
</tr>
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* Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GER Competency Requirements</td>
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</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part A</td>
<td>0-3</td>
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<tr>
<td></td>
<td>English Placement Test score at level 4 or higher, or pass English 102 (OWC-A approved) with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete a OWC-B approved advanced course with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 (QL-A approved) with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy, Part B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete a QL-B approved advanced course with a grade of C or better</td>
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</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Demonstrate language proficiency on approved exam</td>
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</table>
GER Distribution Requirements

<table>
<thead>
<tr>
<th>Arts</th>
<th>Select one approved GER-A designated course</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>Select two approved GER-HU designated courses</td>
<td>3-6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Select two approved GER-SS designated courses</td>
<td>0-6</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one approved GER-NS or GER-NS+ designated course</td>
<td>3-6</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Select one approved GER-CD designated course</td>
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Total Credits: 15-42

Program Admission Requirements (p. 578)

Program Core

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU, fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science (GER-NS)</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>or ED POL 530</td>
<td>Urban Education: Foundations</td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics (GER-SS)</td>
<td></td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics (GER-SS)</td>
<td></td>
</tr>
</tbody>
</table>

Minority Group Relations (Act 31) 2

A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, GER-SS)</td>
<td></td>
</tr>
</tbody>
</table>

Non-Western History or Contemporary Culture 0-3
Both statutory requirements can be met by taking one class from the list under Minority Group Relations (Act 31).

Total Credits: 18-21

Program prospective requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (ie. literature, biology, political science, etc) be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements.

Content Area

Fields of study include economics, geography, history, psychology, political science, and sociology. See advisor for specific course options for chosen fields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Social Studies Field</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>18 credits must be in 300-level or higher courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Second Social Studies Field</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Third Social Studies Field</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Credits: 60

12 credits of the total 24 in the second and third social studies fields must be 300-level or higher coursework.

Professional Education Requirements 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 313</td>
<td>Teaching Economics in the Social Studies Curriculum</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 321</td>
<td>Introduction to the Teaching of Social Studies</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 516</td>
<td>Field Work in Middle School</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
<td>3</td>
</tr>
</tbody>
</table>

Fall

| CURRINS 323| Teaching of Social Studies:                                         | 3       |
| CURRINS 415| Preliminary Student Teaching:                                      | 6       |
| CURRINS 545| Reading in the Content Areas: Middle, Junior, and Senior High School| 3       |
| ED PSY 320 | Principles of Classroom Appraisal and Evaluation                    | 2       |

Student Teaching (Spring) 5

| CURRINS 423| Student Teaching in Social Studies                                   | 10-12   |

Total Credits: 39-41

3 Recommended sequence

5 Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 579) for details.

Additional Requirements for Graduation

- Minimum cumulative GPA of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
- Minimum cumulative GPA of 2.75.
- Satisfactory completion of a minimum 128 credits.
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.
- Completion of edTPA (Teacher Performance Assessment) required for certification.
Advance to Major

Program Admissions Requirements
Application to the Social Studies program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: http://uwm.edu/education/academics/social-studies/.

- **Pre-Professional Skills Test:** Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.
- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 105 or an equivalent with a grade of C or better.
- **Completion of COMMUN 103**, with a grade of C or better. Completion of this course fulfills 3 credits of the Humanities GER requirement.
- **Completion of CURRINS 300** with a grade of C or better.
- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
- **A 2.75 cumulative GPA** in all economics, geography, history, psychology, political science, and sociology courses.
- **A minimum of 58 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- **Meeting with faculty advisor** to review admission application. Faculty signature required on application.

**Benchmarks**

**Student Teaching**
Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/ (https://uwm.edu/education/academics/clinical-experiences/).

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your social studies content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: Social Studies: Content Knowledge #5081;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences; and
- Criminal Background Check submitted to the Office of Clinical Experiences.

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Scheduling an Appointment**
Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

**Walk-In Hours**
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

**Transfer Student Not Yet Enrolled at UWM?**
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

**Graduate Advising**
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/admissions/).**

**Honors in the Department of Teaching and Learning**
Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

**Honors in the School of Education**

**Dean's Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Early Adolescence-Adolescence Level: English
The Early Adolescence through Adolescence (EA-A) Program in English Education is available for students who plan to teach English to students from ages 10-21. English Education candidates participate in hands-on, classroom based field and student teaching experiences in urban area middle and high schools. Candidates who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching English subject areas in grades 6-12.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University General Education Requirements *</td>
<td></td>
<td></td>
<td>12-42</td>
</tr>
<tr>
<td>Program Core</td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Content Area</td>
<td></td>
<td></td>
<td>42</td>
</tr>
<tr>
<td>Professional Education Requirements</td>
<td></td>
<td></td>
<td>38-40</td>
</tr>
<tr>
<td>Electives (to ensure 120 credits at time of graduation)</td>
<td></td>
<td></td>
<td>0-12</td>
</tr>
<tr>
<td><strong>Minimum credits for degree</strong></td>
<td></td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

* Requirement credit totals vary based on student test scores, previous area-specific knowledge, andGER course choice.

**GER Distribution Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, GER-SS)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Program Admission Requirements (p. 582)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
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<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, GER-SS)</td>
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<tr>
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</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, GER-SS)</td>
<td>6</td>
</tr>
</tbody>
</table>

1 Program-specific requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (e.g. literature, biology, political science, etc) to be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements.

2 Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class. Program may allow fulfillment of Act 31 with a 1-day workshop.
<table>
<thead>
<tr>
<th>Content Area Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 234</td>
<td>Teachers as Writers (GER-OWCB, HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 212</td>
<td>Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies (OWC-B, GER-HU)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 233</td>
<td>Introduction to Creative Writing (GER-A)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children’s and Young Adult Literature (GER-HU, highly recommended)</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s: (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present: (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 221</td>
<td>English Writers to 1800 (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 222</td>
<td>English Writers, 1800 to the Present (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 223</td>
<td>American Writers to 1900 (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 224</td>
<td>American Writers: 1900 to the Present (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 269</td>
<td>Literary Forms and Genres:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 274</td>
<td>Literature and the Other Arts:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 275</td>
<td>The Forms of Folk Literature:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 277</td>
<td>Introduction to Ethnic Minority Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 278</td>
<td>Introduction to World Literatures Written in English: (GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 279</td>
<td>Introduction to U.S. Latino/a Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 280</td>
<td>Introduction to Asian-American Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 281</td>
<td>Introduction to African-American Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop (GER-OWCB)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 547</td>
<td>Curricular Applications of the Internet</td>
<td>3</td>
</tr>
<tr>
<td><strong>Advanced Writing</strong></td>
<td><strong>Select two of the following:</strong></td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 400</td>
<td>Introduction to English Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 401</td>
<td>History of the English Language</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 403</td>
<td>Survey of Modern English Grammar</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>3</td>
</tr>
</tbody>
</table>

### Survey I: Periodization/Historical, Genre, Focus (choose one of the following) 3

- **ENGLISH 301**: Survey of English Literature, Beginnings to 1500
- **ENGLISH 302**: Survey of English Literature, 1500-1660
- **ENGLISH 303**: Survey of English Literature, 1660-1798
- **ENGLISH 304**: Survey of English Literature, 1798-1900
- **ENGLISH 305**: Survey of English Literature: 1900 to the Present
- **ENGLISH 306**: Survey of Irish Literature
- **ENGLISH 307**: Survey of American Literature to 1865
- **ENGLISH 308**: Survey of American Literature, 1865-1965
- **ENGLISH 309**: Survey of Contemporary American Literature
- **ENGLISH 326**: The Development of the Novel:
- **ENGLISH 327**: The Development of the Short Story
- **ENGLISH 328**: Forms of Experimental Literature:
- **ENGLISH 329**: Film and Literature
- **ENGLISH 341**: The Development of Drama:
- **ENGLISH 361**: The Development of Poetry:
- **ENGLISH 451**: Chaucer
- **ENGLISH 452**: Shakespeare
- **ENGLISH 454**: Milton
- **ENGLISH 455**: Writers in English Literature, 1500-1660:
- **ENGLISH 457**: Writers in English Literature, 1660-1798:
- **ENGLISH 458**: Writers in English Literature, 1798-1900:
- **ENGLISH 459**: Writers in English Literature, 1900 to the Present:
- **ENGLISH 460**: Writers in American Literature, 1500-1900:
- **ENGLISH 461**: Writers in American Literature, 1900 to the Present:
- **ENGLISH 500**: Studies in Medieval and Early Modern Literature:
- **ENGLISH 501**: Studies in Literature, 1500-1660:
- **ENGLISH 504**: Studies in Literature, 1660-1800:
- **ENGLISH 505**: Studies in Literature, 1800-1900:
- **ENGLISH 507**: Studies in Literature, 1900 to the Present:
- **ENGLISH 530**: Studies in Shakespeare:
- **ENGLISH 621**: Seminar in the Literature of England:
- **ENGLISH 623**: Seminar in American Literature:
- **ENGLISH 624**: Seminar in Modern Literature:
- **ENGLISH 625**: Seminar in Literary History:
- **ENGLISH 685**: Honors Seminar:

### Survey II: Literature and Culture (choose one of the following) 3

- **ENGLISH 332**: Gay and Lesbian Literature: (GER-HU)
- **ENGLISH 372**: Survey of American Indian Literature (GER-CD, GER-HU)
- **ENGLISH 373**: Survey of Ethnic Minority Literature (GER-CD, GER-HU)
- **ENGLISH 374**: Survey of U.S. Latino/a Literature (GER-CD)
## Professional Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education (GER-CD)</td>
<td>3</td>
</tr>
<tr>
<td>or ED POL 530</td>
<td>Urban Education: Foundations</td>
<td></td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>Currins 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>Currins 659</td>
<td>Teaching and Assessing Grammar to Enrich Writing</td>
<td>2</td>
</tr>
</tbody>
</table>

### After Admission to School of Education (2 courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currins 659</td>
<td>Literature and Culture Capstone (choose one of the following)</td>
<td>3</td>
</tr>
<tr>
<td>English 378</td>
<td>Survey of Current Literary and Cultural Theory</td>
<td></td>
</tr>
<tr>
<td>English 545</td>
<td>Studies in the History of Literary Criticism:</td>
<td></td>
</tr>
<tr>
<td>English 547</td>
<td>Studies in Theory and Criticism:</td>
<td></td>
</tr>
<tr>
<td>English 626</td>
<td>Seminar in Critical Theory:</td>
<td></td>
</tr>
<tr>
<td>English 514</td>
<td>Literature in Context:</td>
<td>3</td>
</tr>
<tr>
<td>English 515</td>
<td>Literature and the Other Arts:</td>
<td></td>
</tr>
<tr>
<td>English 517</td>
<td>Studies in African-American Literature:</td>
<td></td>
</tr>
<tr>
<td>English 518</td>
<td>Studies in Irish Literature:</td>
<td></td>
</tr>
<tr>
<td>English 520</td>
<td>Studies in American Indian Literature:</td>
<td></td>
</tr>
<tr>
<td>English 521</td>
<td>Studies in Ethnic Minority Literature:</td>
<td></td>
</tr>
<tr>
<td>English 522</td>
<td>Studies in World Literature Written in English:</td>
<td></td>
</tr>
<tr>
<td>English 523</td>
<td>Studies in U.S. Latino/a Literature:</td>
<td></td>
</tr>
<tr>
<td>English 524</td>
<td>Studies in Asian-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>English 627</td>
<td>Seminar in Literature and Culture:</td>
<td></td>
</tr>
<tr>
<td>English 628</td>
<td>Seminar in Literature by Women:</td>
<td></td>
</tr>
<tr>
<td>English 629</td>
<td>Seminar in Literature and Sexuality:</td>
<td></td>
</tr>
<tr>
<td>English 631</td>
<td>Seminar in American Indian Literature:</td>
<td></td>
</tr>
<tr>
<td>English 632</td>
<td>Seminar in African-American Literature:</td>
<td></td>
</tr>
</tbody>
</table>

### Total Credits: 54


## Additional Requirements for Graduation

- Completion of University GER;
- Completion of Currins 452 with a C+ or better;
- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Minimum Cumulative GPA of 2.75;
- Satisfactory completion of a minimum 120 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

### Program Admission Requirements

Application to the English Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: [http://uwm.edu/education/academics/english/](http://uwm.edu/education/academics/english/).

- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or equivalent with a grade of C or better.
- **Completion of Currins 300** with a grade of C or better.
• A 2.5 minimum cumulative GPA in all UW-M and transfer courses at the time of admission application.
• A 2.75 cumulative GPA in all English content courses.
• A minimum of 58 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
• Meeting with faculty advisor to review admission application. Faculty signature required on application.

**Benchmarks**

**Student Teaching**
Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/ (http://uwm.edu/education/academics/clinical-experiences/).

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education.
- Completion of all required coursework.
- Minimum 2.5 cumulative GPA.
- Minimum of 2.75 GPA in all content area and professional education courses.
- Passing scores reflected on your transcript for the Praxis II exam: English Language Art: Content Knowledge #5038.
- Removal of all F or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences.
- Criminal Background Check submitted to the Office of Clinical Experiences.
- Completion of CURRINS 316, CURRINS 415, CURRINS 510, CURRINS 650, CURRINS 657, CURRINS 658, and CURRINS 659 with a C+ or better.

**Undergraduate Advising**

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**How to Prepare for an Advising Meeting**

- Come prepared with questions or topics for discussion.
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soeinfo@uwm.edu

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**Honors in the Department of Teaching and Learning**

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

**Honors in the School of Education**

**Dean’s Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
Education, BS: Early Childhood

The Early Childhood Education (ECE) program is available for those interested in teaching young children from birth to age 8 (through third grade) in a variety of early care/education and school programs. Students are admitted to the major immediately in the first year or upon transfer to UWM, and it is possible to complete the program in four years. Students who satisfactorily complete the program requirements will be highly-qualified to teach in early childhood settings. Those who wish to acquire a State of Wisconsin ECE teaching license can complete the state-mandated assessments through the program. Additionally program students can elect to attain add-on certification in ECE and English as a Second Language (ESL) or Bilingual Education. All program students will be prepared to teach culturally and linguistically diverse children. The program provides real-world experiences in a cross-section of sites where future employment opportunities exist, including public and charter primary schools; Head Start; and preschools and other community-based educational settings.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements*</td>
<td>30-42</td>
</tr>
<tr>
<td></td>
<td>Program Core*</td>
<td>64-69</td>
</tr>
<tr>
<td></td>
<td>Professional Requirements</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>Completion/Certification</td>
<td>3-15</td>
</tr>
<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>*Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.</td>
<td></td>
</tr>
</tbody>
</table>

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GER Competency Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part B 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete a GER-OWCB approved advanced course with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy, Part A 1</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy, Part B 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete a GER-QLB approved advanced course with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
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<tr>
<td></td>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
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<tr>
<td></td>
<td>Demonstrate language proficiency on approved exam</td>
<td></td>
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<tr>
<td></td>
<td>GER Distribution Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-A designated course</td>
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</tr>
<tr>
<td></td>
<td>Humanities 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select two approved GER-HU designated courses</td>
<td></td>
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<tr>
<td></td>
<td>Social Sciences 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select two approved GER-SS designated courses</td>
<td></td>
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<tr>
<td></td>
<td>Natural Sciences 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-NS or GER-NS+ designated course</td>
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<tr>
<td></td>
<td>Cultural Diversity 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-CD designated course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30-42</td>
</tr>
<tr>
<td></td>
<td>1 Program-specific requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (ie. literature, biology, political science, etc) be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements.</td>
<td></td>
</tr>
</tbody>
</table>

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A grade of C or better must be earned in all professional education courses and sequenced CurrIns courses.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Choose one:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 201 Strategies for Academic Writing (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CURRINS 234 Teachers as Writers (GER-OWCB)</td>
<td></td>
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<tr>
<td></td>
<td>MATH 175 Mathematical Explorations for Elementary Teachers I (GER-QLA)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 176 Mathematical Explorations for Elementary Teachers II (GER-QLB)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choose one:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ANTHRO 213 American Indian Peoples of Wisconsin (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 276 Introduction to American Indian Literature: (GER-CD, HU)</td>
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<tr>
<td></td>
<td>AIS 203 Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
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</tr>
<tr>
<td></td>
<td>HIST 263 North American Indian History Since 1887 (GER-CD, SS)</td>
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<tr>
<td></td>
<td>COMMUN 103 Public Speaking (GER-HU)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Literature Elective (GER-HU)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CES 210 Introduction to Conservation and Environmental Science (GER-NS)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Earth Science elective (GER-NS or GER-NS+: Aston, Atm Sci, Geog, or Geo Sci)</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Physical Science elective (GER-NS or GER-NS+: Chem or Physics)</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Choose one:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 151 American History: 1607 to 1877 (GER-SS)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HIST 152 American History: 1877 to the Present (GER-SS)</td>
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<tr>
<td></td>
<td>POL SCI 104 Introduction to American Government and Politics (GER-SS)</td>
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<td></td>
<td>POL SCI 105 State Politics (GER-SS)</td>
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</table>

Prior to Semester 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CURRINS 140 Field Experience with Families &amp; Communities</td>
<td>1</td>
</tr>
</tbody>
</table>

1 Program-specific requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (ie. literature, biology, political science, etc) be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements.
<table>
<thead>
<tr>
<th>Semester 4</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 312</td>
<td>Models and Issues for Early Childhood Education</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CURRINS 240</td>
<td>Field Experience with Dual Language Learners</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CURRINS 501</td>
<td>Language Acquisition for Children of Diverse Backgrounds</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 302</td>
<td>Curriculum Design in Early Childhood</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CURRINS 340</td>
<td>Field Experience in Preschool and Kindergarten Classrooms</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CURRINS 502</td>
<td>Emergent Literacy and Biliteracy in the Early Childhood Classroom</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CURRINS 534</td>
<td>Instructional Strategies in Early Childhood Education</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 6</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 440</td>
<td>Field Experience in the Primary Grades</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>CURRINS 504</td>
<td>Methods for Biliteracy and Language Arts in Primary Grades</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 338</td>
<td>Teaching of Science in Early Childhood</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CURRINS 540</td>
<td>Advanced Field Experience in Early Childhood Education</td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Total Credits | | 64-69 |

2 Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

### Professional Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A grade of C or better must be earned in all professional education courses and sequenced CurrIns courses.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CURRINS 301 | Infants and Toddlers: Curriculum and Teaching | 3 |
| CURRINS 323 | Teaching of Social Studies: | 3 |
| CURRINS 330 | Teaching of Mathematics: Early Childhood | 3 |
| CURRINS 511 | Curriculum and Guidance for Social - Emotional Learning | 3 |
| CURRINS 512 | Reflective Practice in Early Childhood Teaching and Learning | 3 |
| CURRINS/EXCEDUC 612 | Collaborations for Teachers with Families, Schools, and Communities | 3 |
| CURRINS 651 | Literature for the Young Child | 3 |
| ART ED 130 | Multicultural Art and Visual Learning in Elementary Education (GER- A, CD) | 3 |
| MUS ED 260 | Making Music Connections with Children | 3 |
| ED POL 375 | Cultural Foundations of Education | 3 |
| ED PSY 330 | Introduction to Learning and Development | 3 |
| ED PSY/EXCEDUC 613 | Infant and Early Childhood Assessment | 3 |

### EXCEDUC 630

| Survey of EC Intervention: Young Children with Special Needs, Families | 3 |

| Total Credits | | 39 |

### Semester 8: Program Completion and Certification Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 1: Education Degree, Early Childhood Education</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CURRINS 540 | Advanced Field Experience in Early Childhood Education | 6 |

Select electives as needed to reach 120 credits (see an advisor for appropriate options)

| Total Credits | | 6 |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Option 2: Education Degree, Early Childhood Education plus Early Childhood Certification</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CURRINS 601 | Early Childhood Seminar in Student Teaching | 3 |
| CURRINS 640 | Student Teaching in Early Childhood | 12 |

| Total Credits | | 15 |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 3: Education Degree in Early Childhood plus Early Childhood and English as a Second Language Certifications</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CURRINS 601 | Early Childhood Seminar in Student Teaching | 3 |
| CURRINS 640 | Student Teaching in Early Childhood | 9 |
| CURRINS 443 | Student Teaching in English as a Second Language: Minor | 3 |

| Total Credits | | 15 |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 4: Education Degree in Early Childhood plus Early Childhood and Bilingual Certifications</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CURRINS 601 | Early Childhood Seminar in Student Teaching | 3 |
| CURRINS 640 | Student Teaching in Early Childhood | 9 |
| CURRINS 442 | Student Teaching in Bilingual Education | 3 |

| Total Credits | | 15 |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 5: Education Degree in Early Childhood plus Early Childhood, English as a Second Language, and Bilingual Certifications</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CURRINS 601 | Early Childhood Seminar in Student Teaching | 3 |
| CURRINS 640 | Student Teaching in Early Childhood | 6 |
| CURRINS 442 | Student Teaching in Bilingual Education | 3 |
| CURRINS 443 | Student Teaching in English as a Second Language: Minor | 3 |

| Total Credits | | 15 |

### Program Benchmarks (p. 586)

**Additional Requirements for Graduation:**

- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Minimum cumulative GPA of 2.75 on professional education courses
• Satisfactory completion of a minimum of 120 credits
• Completion of the last year of coursework (30 credits) in residence at UWM
• For certification majors only: Completion of edTPA (Teacher Performance Assessment)

**Benchmarks**

Students must meet benchmarks at 30, 60, and 85 credits and prior to student teaching. Benchmarks are monitored through tracking systems and advising. A student will be restricted from moving forward in the program if the benchmarks are not completed.

**30 Credit Benchmarks**

Reviewed with your advisor the semester after completion of 30 credits:

- Mandatory meeting with your advisor
- Completion of English 102 and Math 175 with a C or better
- Minimum cumulative GPA of 2.25 on all UWM and transfer courses

Certification majors only:

- Passing scores on a pre-professional skills test (See your academic advisor for additional information.)

**60 Credit Benchmarks**

Reviewed with your advisor the semester after completion of 60 credits:

- Mandatory meeting with your advisor
- Minimum cumulative GPA of 2.5 on all UWM and transfer courses

Certification majors only:

- Registered for the appropriate Praxis II exam
  - Elementary Education Content Knowledge Exam #5014
  - Teaching English to Speakers of Other Languages #5361

**85 Credit Benchmarks**

Reviewed with your advisor the semester after completion of 85 credits:

- Mandatory meeting with your advisor
- Minimum cumulative GPA of 2.5 on all UWM and transfer courses
- Complete and sign form to declare intention: Education Degree in Early Childhood only or degree with certification in Early Childhood, ESL, and/or Bilingual

**Student Teaching Benchmarks (certification majors only)**

- Mandatory attendance at Pre-Student Teaching Orientation
- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Removal of all F or I (Incomplete) grades in courses
- C or better in professional education and CurrIns sequenced courses
- Successfully pass the appropriate Praxis II exam(s)
  - Elementary Education Content Knowledge Exam #5014
  - Teaching English to Speakers of Other Languages #5361
- Successfully pass the Wisconsin Foundations of Reading Test (WiFORT)

**Graduation Benchmarks (must be met to be approved for graduation)**

Reviewed during the student teaching semester

- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Satisfactory completion of a minimum of 120 credits
- Completion of the last year of coursework (30 credits) in residence at UWM

Certification majors only:

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- Come prepared with questions or topics for discussion.
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- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
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Enderis Hall, Room 209
(414) 229-4721
seeinfo@uwm.edu

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Honors in the School of Education

Dean's Honor List

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Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Early Childhood-Adolescence: English as a Second Language

The English as a Second Language (ESL) Program is available as a major or a minor. An ESL major is for students who plan to teach English to non-native speakers from birth to age 21, in PK through 12th grade. Students must select the Early Childhood through Adolescence ESL major for grades PK through 12th grade. The ESL minor will result in an additional certification at the same level as your initial license.

Students at this level of certification may also add the following licenses while pursuing or after obtaining their ESL licensure as their initial certification:

- World Languages

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>24-46</td>
<td>University General Education Requirements *</td>
<td>24-46</td>
</tr>
<tr>
<td>9-12</td>
<td>Program Core *</td>
<td>9-12</td>
</tr>
<tr>
<td>36</td>
<td>Content Area</td>
<td>36</td>
</tr>
<tr>
<td>14-24</td>
<td>Professional Education Requirements</td>
<td>14-24</td>
</tr>
<tr>
<td>21-37</td>
<td>Electives (to ensure 128 credits at time of graduation)</td>
<td>21-37</td>
</tr>
<tr>
<td>128</td>
<td>Minimum credits for degree</td>
<td>128</td>
</tr>
</tbody>
</table>

* Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

University General Education Requirements (GER)

Required courses for this program fulfill some of the university’s General Education Requirements. Consult Program Core for specific courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-3</td>
<td>Oral and Written Communication, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td>3</td>
<td>Oral and Written Communication, Part B</td>
<td>3</td>
</tr>
<tr>
<td>0-3</td>
<td>Quantitative Literacy, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td>3</td>
<td>Quantitative Literacy, Part B</td>
<td>3</td>
</tr>
<tr>
<td>0-6</td>
<td>Foreign Language</td>
<td>0-6</td>
</tr>
<tr>
<td>3</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>0-6</td>
<td>Humanities</td>
<td>0-6</td>
</tr>
<tr>
<td>3-6</td>
<td>Social Sciences</td>
<td>3-6</td>
</tr>
<tr>
<td>6</td>
<td>Natural Sciences</td>
<td>6</td>
</tr>
<tr>
<td>0-3</td>
<td>Cultural Diversity</td>
<td>0-3</td>
</tr>
<tr>
<td>18-42</td>
<td>Total Credits</td>
<td>18-42</td>
</tr>
</tbody>
</table>

1 Requirement fulfilled, or partially fulfilled, prior to program admission.
2 Program-specific requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (ie. literature, biology, political science, etc) be used to fulfill some GERs in order to meet PI 34 Statutory Requirements.

Program Admission Requirements (p. 588)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU, fulfilled prior to program admission)</td>
<td>3</td>
</tr>
</tbody>
</table>
### Content Area

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)</td>
<td>3</td>
</tr>
<tr>
<td>Non-Western History or Contemporary Culture</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following SUGGESTED courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>Minority Group Relations (Act 31)</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses or a one-day seminar.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, GER-HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, GER-SS)</td>
<td></td>
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</tbody>
</table>

Total Credits: 9-12

---

### Professional Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td></td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 531</td>
<td>Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 600</td>
<td>Survey of Exceptional Education</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 503</td>
<td>Assessment Issues in Language Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 504</td>
<td>Methods for Biliteracy and Language Arts in Primary Grades</td>
<td></td>
</tr>
<tr>
<td>CURRINS 544</td>
<td>Improving the Teaching of Reading:</td>
<td></td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td></td>
</tr>
<tr>
<td>Student Teaching</td>
<td></td>
<td>5-12</td>
</tr>
<tr>
<td>CURRINS 444</td>
<td>Student Teaching in ESL- Early Childhood-Adolescence:</td>
<td></td>
</tr>
<tr>
<td>CURRINS 445</td>
<td>Seminar in Language Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 14-24

---

### Additional Requirements for Graduation

- A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.
- Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 589) for details.

### Advance to Major

### Program Admission Requirements

Application to the English as a Second Language program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: http://uwm.edu/education/academics/second-language/.
• **Pre-Professional Skills Test**: Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.

• **English Composition**: Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.

• **Mathematics Skills**: Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 103, MATH 105, MATH 175, or an equivalent, with a grade of C or better. **Note**: MATH 103 or MATH 105 are recommended as they also meet core curriculum requirements.

• **Completion of CURRINS 300, Introduction to Teaching**, with a grade of C or better.

• **Completion of COMMUN 103** with a grade of C or better.

• A 2.5 minimum GPA in all English as a Second Language content courses.

• A minimum of 48 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

### Benchmarks

#### Student Teaching

Students must complete an application to request/be assigned a student teaching placement. Deadlines for submission are posted by the Office of Clinical Experiences. (http://uwm.edu/education/academics/clinical-experiences)

To be approved, students must **Also** meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student's faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.
- Have a minimum 2.75 GPA in all content area and professional education courses.
- Passing scores reflected on your transcript for the Praxis II exam: English to Speakers of Other Languages: Content Knowledge #5361.
- Removal of all F and/or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experiences.

#### Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

#### Scheduling an Appointment

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

#### Walk-In Hours

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

#### Transfer Student Not Yet Enrolled at UWM?

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

#### Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

#### Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

#### Honors in the School of Education

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

#### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional...
gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Education, BS: Early Childhood-Adolescence: World Language**
The World Languages Program is available for students as a major or a minor. A World Language major is for students who plan to teach a world language to children from birth to age 21, in PK through 12th grade. The World Language minor will result in the additional certification at the same level as your initial license.

Students who satisfactorily complete the undergraduate program (as a major or minor) will be granted a license in one of the following languages: American Sign Language, Chinese, French, German, Hebrew, Italian, Latin, Russian, or Spanish.

Students seeking a World Language certification (major or minor) may also add the following licenses:

- Bilingual (only available for Spanish, World Language Licenses; a bilingual license will allow you to teach Spanish for Heritage Speakers only)
- English as a Second Language

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements *</td>
<td>24-42</td>
</tr>
<tr>
<td></td>
<td>Program Core *</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td>Content Area</td>
<td>30-33</td>
</tr>
<tr>
<td></td>
<td>Professional Education Requirements</td>
<td>14-24</td>
</tr>
<tr>
<td></td>
<td>Elective (to ensure 128 credits at time of graduation)</td>
<td>15-48</td>
</tr>
<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>128</td>
</tr>
</tbody>
</table>

* Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

**University General Education Requirements (GER)**
Required courses for this program fulfill some of the University GERs. Consult Program Core for specific courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GER Competency Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>English Placement Test score at level 4 or higher, or pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English 102 (OWC-A approved) with a grade of C or better</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete an OWC-B approved advanced course with a grade of</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C or better</td>
<td></td>
</tr>
</tbody>
</table>

**Quantitative Literacy, Part A**
Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 (QL-A approved) with a grade of C or better

**Quantitative Literacy, Part B**
Complete a QL-B approved advanced course with a grade of C or better

**Foreign Language**
Complete one of the following:
- 2 consecutive semesters of college instruction in a single foreign language with passing grades
- 2 consecutive years of high school instruction in a single foreign language with passing grades
- Demonstrate language proficiency on approved exam

**GER Distribution Requirements**

<table>
<thead>
<tr>
<th>Arts</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
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<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Humanities</th>
<th>3-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two approved GER-HU designated courses</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Sciences</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two approved GER-SS designated courses</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Natural Sciences</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one approved GER-NS or GER-NS+ designated course</td>
<td></td>
</tr>
<tr>
<td>Select one approved GER-NS+ designated course, which includes a lab component</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cultural Diversity</th>
<th>0-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one approved GER-CD designated course</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**
24-42

1 Requirement fulfilled, or partially fulfilled, prior to program admission.
2 Program-specific requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (ie. literature, biology, political science, etc) be used to fulfill some GERs in order to meet PI 34 Statutory Requirements.

**Program Admission Requirements (p. 593)**

**Program Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COMMUN 103 Public Speaking (GER-HU, fulfilled prior to</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>program admission)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CURRINS 300 Introduction to Teaching: Colloquium and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fieldwork (fulfilled prior to program admission)</td>
<td></td>
</tr>
</tbody>
</table>

**Non-Western History or Contemporary Culture**

<table>
<thead>
<tr>
<th>ANTHRO 213 American Indian Peoples of Wisconsin (GER-CD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 276 Introduction to American Indian Literature (GER-CD)</td>
</tr>
<tr>
<td>AIS 203 Western Great Lakes American Indian Community Life of the Past (GER-CD)</td>
</tr>
<tr>
<td>HIST 263 North American Indian History Since 1887 (GER-CD)</td>
</tr>
</tbody>
</table>

**Minority Group Relations (Act 31)**

<table>
<thead>
<tr>
<th>ANTHRO 213 American Indian Peoples of Wisconsin (GER-CD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 276 Introduction to American Indian Literature (GER-CD)</td>
</tr>
<tr>
<td>AIS 203 Western Great Lakes American Indian Community Life of the Past (GER-CD)</td>
</tr>
<tr>
<td>HIST 263 North American Indian History Since 1887 (GER-CD)</td>
</tr>
</tbody>
</table>

A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses or a one-day seminar.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature (GER-CD)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>9-12</td>
</tr>
</tbody>
</table>

3 Both statutory requirements can be met by taking one course.

### Language Content Area
Complete total credits in chosen language, plus any prerequisites. Initial language courses (levels 1-4) may be satisfied through language proficiency examinations. See academic advisor for details.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 200</td>
<td>Chinese Calligraphy</td>
<td>3</td>
</tr>
<tr>
<td>Select five of the following from at least three different departments:</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
<td></td>
</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
<td></td>
</tr>
<tr>
<td>CHINESE 699</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 363</td>
<td>Chinese Literature in the Global Context:</td>
<td></td>
</tr>
<tr>
<td>GEOG 332</td>
<td>China: Peoples, Regions, and Development</td>
<td></td>
</tr>
<tr>
<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
<td></td>
</tr>
<tr>
<td>HIST 377</td>
<td>Modern China</td>
<td></td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 480</td>
<td>Chinese Painting</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>32</td>
</tr>
<tr>
<td><strong>Complete 9 credits of the following:</strong></td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 324</td>
<td>Contemporary French Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 325</td>
<td>Intensive Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 332</td>
<td>Reading French Texts</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 392</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 426</td>
<td>Growing Up French</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 331</td>
<td>Intermediate German Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 332</td>
<td>Intermediate Conversation and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 333</td>
<td>Analysis of German Texts</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 334</td>
<td>Introduction to German Literature and Culture</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 626</td>
<td>Advanced German Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 671</td>
<td>Seminar on Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 credits of 400-level or higher German Literature Electives:</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>30</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBREW</td>
<td>Consult with a faculty or academic advisor regarding courses.</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITALIAN 310</td>
<td>Italian Immersion</td>
<td>4</td>
</tr>
<tr>
<td>ITALIAN 311</td>
<td>Advanced Conversation and Composition: Contemporary Italian Usage</td>
<td>4</td>
</tr>
<tr>
<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
<td>4</td>
</tr>
<tr>
<td>ITALIAN 321</td>
<td>Introduction to Italian Literature</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 322</td>
<td>Introduction to Italian Literature and Film</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 357</td>
<td>Topics in Italian Culture in Translation:</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 457</td>
<td>Topics in Italian Literature and Culture in Translation:</td>
<td>3</td>
</tr>
</tbody>
</table>
ITALIAN 670  
Studies in Italian Literature: 3
or ITALIAN 383  
Honors Seminar: 

Total Credits 30

4 Retake course to complete full credit amount required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATIN 103</td>
<td>First Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 104</td>
<td>Second Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 205</td>
<td>Third Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 306</td>
<td>Readings in Latin Literature:</td>
<td>3</td>
</tr>
<tr>
<td>LATIN 508</td>
<td>Latin Prose Composition</td>
<td>3</td>
</tr>
<tr>
<td>LATIN 501</td>
<td>Readings in Latin Prose:</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 502</td>
<td>Readings in Latin Poetry:</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 699</td>
<td>Directed Reading</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 33

4 Retake course to complete full credit amount required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 308</td>
<td>Advanced Writing and Reading</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 318</td>
<td>Advanced Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>or SPANISH 319</td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
<td></td>
</tr>
<tr>
<td>SPANISH 341</td>
<td>Introduction to Hispanic Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 350</td>
<td>Introduction to Literary Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 491</td>
<td>Topics in Hispanic Culture:</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 470</td>
<td>Survey of Hispanic Literature and Civilization</td>
<td></td>
</tr>
<tr>
<td>SPANISH 472</td>
<td>Survey of Spanish-American Literature and Civilization</td>
<td></td>
</tr>
<tr>
<td>SPANISH 474</td>
<td>Survey of Spanish Literature and Civilization</td>
<td></td>
</tr>
</tbody>
</table>

Complete 9 credits of 300-level or higher Spanish electives 9

Total Credits 30

**Professional Education Requirements**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td></td>
</tr>
<tr>
<td>ED PSY 631</td>
<td>Cognition: Learning, Problem Solving and Thinking</td>
<td></td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 503</td>
<td>Assessment Issues in Language Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 504</td>
<td>Methods for Biliteracy and Language Arts in Primary Grades</td>
<td></td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td></td>
</tr>
<tr>
<td>CURRINS 544</td>
<td>Improving the Teaching of Reading:</td>
<td></td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td></td>
</tr>
<tr>
<td>CURRINS 546</td>
<td>Language, Content, and Comprehensible Input</td>
<td></td>
</tr>
<tr>
<td>CURRINS 637</td>
<td>World Language Methods and Materials</td>
<td></td>
</tr>
<tr>
<td>CURRINS 639</td>
<td>Critical Issues and Methods in World Language Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 655</td>
<td>Applied Educational Linguistics</td>
<td></td>
</tr>
</tbody>
</table>

**Student Teaching**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 438</td>
<td>Student Teaching in World Language: Early Childhood-Adolescence</td>
<td>2-12</td>
</tr>
<tr>
<td>CURRINS 445</td>
<td>Seminar in Language Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 14-24

A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.

Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 593) for details.

**Additional Requirements for Graduation**

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
- Satisfactory completion of a minimum 128 credits.
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.
- Completion of edTPA (Teacher Performance Assessment) required for certification.

**English as a Second Language Minor - option**

World Language majors wishing to complete an English as a Second Language minor should complete these additional requirements:

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td></td>
</tr>
<tr>
<td>CURRINS 444</td>
<td>Student Teaching in ESL- Early Childhood- Adolescence</td>
<td>10</td>
</tr>
</tbody>
</table>

Total Credits 13
To be approved, students must: See Benchmarks (p. 593) for details.

**Advance to Major**

**Program Admission Requirements**

Application to the World Languages program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at [http://uwm.edu/education/academics/second-language/](http://uwm.edu/education/academics/second-language/).

- **Pre-Professional Skills Test:** Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.
- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.
- **Mathematics Skills:** Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 103, MATH 105, MATH 175, or an equivalent, with a grade of C or better. Note: MATH 103 or MATH 105 are recommended as they also meet core curriculum requirements.
- **Completion of CURRINS 300,** with a grade of C or better.
- **Completion of COMMUN 103** with a grade of C or better.
- A 2.5 minimum GPA in all UWM and transfer courses at the time of application.
- A 2.75 cumulative GPA in all language content courses.
- A minimum of 48 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

**Benchmarks**

**Student Teaching**

Prior to requesting/being assigned a student teaching placement, a student must:

- Demonstrate Foreign Language Proficiency - A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor.
- Complete an Immersion Experience - Required for all prospective language teachers, this requirement must be met by spending a semester or a year in a country where the chosen major language is spoken. Submit documentation of immersion experience to your academic advisor prior to student teaching placement.
- Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. ([http://uwm.edu/education/academics/clinical-experiences](http://uwm.edu/education/academics/clinical-experiences))

To be approved, students must **also** meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student’s faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.

- Have a minimum 2.75 GPA in all content area and professional education courses.
- Passing scores reflected on your transcript for the Praxis II exam: English to Speakers of Other Languages: Content Knowledge #5361.
- Removal of all F and/or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experience

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Review your Advisement Report in PAWS ([http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement](http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement)).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

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(414) 229-4721
soeinfo@uwm.edu

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**Transfer Student Not Yet Enrolled at UWM?**

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**Graduate Advising**

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory ([https://uwm.edu/education/people](https://uwm.edu/education/people)). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact [your PAWS account](http://uwm.edu/oasis/).
Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

Honors in the School of Education

Dean's Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Inclusion and Accessibility Studies

The Inclusion and Accessibility program is designed for those interested in working with students and adults with disabilities in a variety of settings. The focus is on understanding disability and disability policy broadly, along with 9 credits in 3 of the following areas: Autism Spectrum Disorders, Deaf History and Culture, Transition to Post-Secondary Environments, and an International Focus in Disability.

This major is for individuals who are interested in pursuing a career in non-profit, for-profit, governmental agencies, and non-governmental organizations (NGOs) that provide services to children and adults with disabilities (Transition Specialist, Job Coach, Line Therapist, Residential Service Provider, international aid agency, etc.).

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University General Education Requirements*</td>
<td>30-42</td>
<td></td>
</tr>
<tr>
<td>Core Courses</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Strands</td>
<td></td>
<td>27</td>
</tr>
<tr>
<td>Minimum credits for degree</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

*Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER Competency Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part A</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part B</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complete an OWC-B approved advanced course with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy, Part A</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy, Part B</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Complete a QL-B approved advanced course with a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>0-6</td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demonstrate language proficiency on approved exam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GER Distribution Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
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<tr>
<td>Select one approved GER-A designated course</td>
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<td></td>
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<tr>
<td>Humanities</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select two approved GER-HU designated courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select two approved GER-SS designated courses</td>
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<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select one approved GER-NS or GER-NS+ designated course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
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<td>3</td>
</tr>
<tr>
<td>Select one approved GER-CD designated course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 30-42

Admission to Program (p. 595)

Program Requirements

Students must complete the Core Courses and any combination of three 9-credit strands.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required for Admission:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td>3</td>
</tr>
<tr>
<td>Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 547</td>
<td>Comparative Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 548</td>
<td>Introduction to Disability Studies</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 595</td>
<td>Technology Applications for Diverse Learners</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 608</td>
<td>Multicultural Learning and Teaching in Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>
How to Prepare for an Advising Meeting

- Come prepared with questions or topics for discussion.

Transition Strand

EXCEDUC 662 Collaborative Strategies 3
EXCEDUC 679 Critical Issues in Transition Planning for Students with Disabilities (This course required for this strand) 3
Choose two:
- EXCEDUC 503 Job Development and On the Job Support for Students with Disabilities 3
- EXCEDUC 505 Transition Assessment for Individuals with Disabilities 3
- EXCEDUC 507 Linking Academics and Self-Determination to Transition Planning 3

Autism Spectrum Disorders Strand

EXCEDUC 560 Foundations of Autism Spectrum Disorders (GER-OWCB) 3
EXCEDUC 561 Methods for Working with Individuals with Autism Spectrum Disorders 3
EXCEDUC 585 Supervised Practicum in Child and Youth Care 3

American Sign Language Strand

EXCEDUC 301 American Sign Language I 3
EXCEDUC 330 Deaf History 3
EXCEDUC 352 American Deaf Culture 3

Global Studies Strand

EXCEDUC 297 Study Abroad: 9

Electives to ensure 120 credits

Students should work with their academic advisor in selecting the additional elective courses, minor, or certificate.

Requirements for Graduation

- Satisfactory completion of a minimum of 120 credits;
- Completion of university GER;
- Completion of program requirements;
- Minimum GPA of 2.0

Advance to Major

Minimum Application Requirements

- Completion of ED POL 375 or ED POL 530 with a grade of C or better;
- Completion of EXCEDUC 300 with a grade of C or better; and
- Minimum 2.5 cumulative GPA in all UWM coursework by the end of the semester in which you apply

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Transfer Student Not Yet Enrolled at UWM?

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

Honors in the School of Education

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).
Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Education, BS: Elementary Education
The Elementary Education Program is designed for students seeking to teach at the middle childhood-early adolescence level (ages 6-12 or 13, grades 1-8). This program prepares students to work in urban settings and takes place in close partnership with local school districts. The UWM School of Education’s urban mission is upheld in the Elementary Education program’s commitment to preparing pre-service teachers to meet the needs of diverse populations. Students are admitted into the Elementary Education program upon admission to the University, and it is possible to complete the program in four years. Students who satisfactorily meet program requirements will be recommended for student teaching. Upon successful completion of all student teaching requirements, including several state-required assessments, students will be licensed to teach grades 1-8. After completion of the Elementary Education program, students may opt to pursue an add-on certification in Exceptional Education by completing streamlined course paths that include an additional student teaching requirement.

Students completing the Elementary Education program will receive a bachelor’s degree in Education, and endorsement to be licensed to teach children in grades one through eight in the State of Wisconsin.

Special Education Certification
Students who successfully complete the Elementary Education program may seek dual licensure in special education, which requires a fifth year of school. Credits in the fifth year may be integrated into a master’s program in Exceptional Education provided the student is admitted into the graduate program at UWM.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements*</td>
<td>30-42</td>
</tr>
<tr>
<td></td>
<td>Program Core*</td>
<td>42-43</td>
</tr>
<tr>
<td></td>
<td>Professional Requirements</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>Minor Requirement*</td>
<td>18</td>
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<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>120</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University General Education Requirements (GER)</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GER Competency Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part A</td>
<td>English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better</td>
<td>0-3</td>
</tr>
<tr>
<td>Oral and Written Communication, Part B</td>
<td>Complete an OWC-B approved advanced course with a grade of C or better</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Literacy, Part A</td>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better</td>
<td>0-3</td>
</tr>
<tr>
<td>Quantitative Literacy, Part B</td>
<td>Complete a QL-B approved advanced course with a grade of C or better</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English 201 Strategies for Academic Writing (GER-OWCB)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CURRINS 234 Teachers as Writers (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I (GER-QLA)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II (GER-QLB)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choose one:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ANTHRO 213 American Indian Peoples of Wisconsin (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 276 Introduction to American Indian Literature: (GER-CD, HU)</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, SS)</td>
<td></td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling: (GER-A)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children’s and Young Adult Literature (GER-HU)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities Elective or English Elective for English minors only (GER-HU)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CES 210 Introduction to Conservation and Environmental Science (GER-NS)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Science elective (GER-NS+: Chem or Physics)</td>
<td>3-4</td>
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</table>
Choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877 (GER-SS)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present (GER-SS)</td>
<td>3</td>
</tr>
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</table>

Choose any GER-SS

ED POL 375 Cultural Foundations of Education 3
CURRINS 300 Introduction to Teaching: Colloquium and Fieldwork 3
or CURRINS 333 Introduction to Teaching, Grades 1-8 3
ED PSY 330 Introduction to Learning and Development 3

Total Credits 42-43

2 Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

Professional Requirements
A C or better is required in all coursework. No courses may be taken for credit/no credit.

Program Benchmarks (p. 599)

Minor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 306</td>
<td>MCEA Clinical Experience, Grades 1-3</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 331</td>
<td>Teaching of Mathematics, Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 332</td>
<td>Teaching of Mathematics: Middle School</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 333</td>
<td>Professional Seminar 1: Foundations of Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 325</td>
<td>Practice of Classroom Assessment</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 307</td>
<td>MCEA Clinical Experience, Grades 4-8</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 536</td>
<td>Literacy 1: Assessing and Teaching Early Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 537</td>
<td>Literacy 2: Assessing and Teaching Literacy through Early Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 556</td>
<td>Professional Seminar 2: Classroom Management: Theory, Practice and Context</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 406</td>
<td>Advanced MCEA Clinical Experience</td>
<td>4</td>
</tr>
<tr>
<td>CURRINS 538</td>
<td>Literacy 3: Introduction to New Literacies</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 558</td>
<td>Professional Seminar 3: Building Learning Communities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 130</td>
<td>Multicultural Art and Visual Learning in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 323</td>
<td>Teaching of Social Studies:</td>
<td>3</td>
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<tr>
<td>CURRINS/EXCEDUC 375</td>
<td>Using Technology for Teaching and Learning</td>
<td>1</td>
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CURRINS 327 Teaching of Science in the Elementary School 3
MUS ED 260 Making Music Connections with Children 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS/EXCEDUC 376</td>
<td>Understanding and Developing the edTPA</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 407</td>
<td>Student Teaching in Middle Childhood-Early Adolescence</td>
<td>9</td>
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<tr>
<td>CURRINS 471</td>
<td>Professional Seminar 4: The Effective Urban Educator</td>
<td>2</td>
</tr>
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</table>

If completing ESL Minor, 3 additional Student Teaching credits required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 443</td>
<td>Student Teaching in English as a Second Language: Minor</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 64

Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 596) for details.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877</td>
<td>4</td>
</tr>
<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature</td>
<td>3</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 103</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 104</td>
<td>Introduction to American Government and Politics</td>
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</table>
### English/Language Arts

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children's and Young Adult Literature</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 234</td>
<td>Teachers as Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 233</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
<td>3</td>
</tr>
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#### Multicultural - choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGLISH 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 192</td>
<td>First-Year Seminar: (Multicultural Milwaukee)</td>
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</table>

#### Literature - choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 307</td>
<td>Survey of American Literature to 1865</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 309</td>
<td>Survey of Contemporary American Literature</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 312</td>
<td>Topics in Film Studies:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 325</td>
<td>The Art of Fiction:</td>
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</tr>
<tr>
<td>ENGLISH 327</td>
<td>The Development of the Short Story</td>
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</tr>
<tr>
<td>ENGLISH 329</td>
<td>Film and Literature</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 332</td>
<td>Gay and Lesbian Literature:</td>
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</tr>
<tr>
<td>ENGLISH 372</td>
<td>Survey of American Indian Literature</td>
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<tr>
<td>ENGLISH 373</td>
<td>Survey of Ethnic Minority Literature</td>
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<tr>
<td>ENGLISH 374</td>
<td>Survey of U.S. Latino/a Literature</td>
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<tr>
<td>ENGLISH 375</td>
<td>Survey of Asian American Literature</td>
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<tr>
<td>ENGLISH 376</td>
<td>Survey of African-American Literature from 1930</td>
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<tr>
<td>ENGLISH 377</td>
<td>Survey of African-American Literature, 1930 to the Present</td>
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<tr>
<td>ENGLISH 378</td>
<td>Survey of Current Literary and Cultural Theory</td>
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<tr>
<td>ENGLISH 381</td>
<td>World Literatures Written in English:</td>
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<tr>
<td>ENGLISH 383</td>
<td>Cinema and Genre:</td>
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<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
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### Mathematics

<table>
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<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 275</td>
<td>Problem Solving/Critical Thinking for Elementary Education Majors</td>
<td>3</td>
</tr>
<tr>
<td>MATH 277</td>
<td>Geometry for Elementary Education Majors</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 276</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH/MTHSTAT 278</td>
<td>Discrete Probability and Statistics for Elementary Education Majors</td>
<td>3</td>
</tr>
<tr>
<td>or MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
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</table>

### Natural Science

Choose from the following courses to total 18 credits in the Science Minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
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</table>

#### Physical Science - choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHYSICS 107 &amp; PHYSICS 108</td>
<td>Physics in Everyday Life and Laboratory for Physics in Everyday Life</td>
<td>3-4</td>
</tr>
<tr>
<td>PHYSICS 185</td>
<td>Basic Physics for Teachers</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 106</td>
<td>Chemistry in the World Around Us--Chemistry for the Non-Science Major</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 185</td>
<td>Basic Chemistry for Teachers</td>
<td></td>
</tr>
</tbody>
</table>

#### Earth Science - choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth (Do not take if you have taken GEO SCI 185.)</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 185</td>
<td>Introductory Earth Science for Teachers</td>
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</tr>
</tbody>
</table>

#### Biology - choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 102</td>
<td>Elements of Biology (Do not take if you have taken BIO SCI 185.)</td>
<td>3-4</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td></td>
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</tbody>
</table>
Science Electives - choose one: 3-6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ASTRON 103 &amp; ASTRON 104</td>
<td>Survey of Astronomy and Astronomy Laboratory</td>
</tr>
<tr>
<td>ASTRON 185</td>
<td>Astronomy for Pre-Education Majors 4</td>
</tr>
<tr>
<td>ATM SCI 100</td>
<td>Survey of Meteorology</td>
</tr>
<tr>
<td>BIO SCI 100</td>
<td>Survey of Zoology</td>
</tr>
<tr>
<td>BIO SCI 103</td>
<td>Topics in Modern Biology:</td>
</tr>
<tr>
<td>BIO SCI 104</td>
<td>Plants in Today’s World</td>
</tr>
<tr>
<td>GEO SCI 105</td>
<td>Earth, Air, Fire and Water</td>
</tr>
<tr>
<td>GEO SCI 106</td>
<td>The Earth Environment</td>
</tr>
</tbody>
</table>

Total Credits 15-20

4 Highly recommended course.

Additional Requirements for Graduation and Certification

- Minimum cumulative GPA of 2.75 in all UWM and transfer courses;
- Minimum cumulative GPA of 2.75 in professional education courses;
- Passing scores on the Praxis subject assessment or a content knowledge GPA of 3.0 posted on transcript;
- Satisfactory completion of a minimum 120 credits;
- Completion of last year of coursework (30 credits) in residence at UWM; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

Benchmarks

Gateway Check at 40 Credits Completed

- Mandatory meeting with advisor in the semester following 40-credit semester;
- Minimum cumulative GPA of 2.5 in required program courses (all courses listed on the program sheet);
- Completion of dispositions and field evaluation from CURRINS 333 or CURRINS 300; and
- Completion of MATH 175 and ENGLISH 102 (or score of 4 or higher on English placement test).

Gateway Check Prior to Approval to Student Teach

- Minimum cumulative GPA of 2.75 in required courses (all courses listed on program sheet);
- Removal of all F or I (incomplete) grades in courses;
- C or better in required program courses (all courses in PS1 - PS3);
- Passing scores on the Wisconsin Foundations of Reading Test (after semester 2);
- Completion of practice Teacher Performance Assessment (edTPA);
- Passing scores on the Praxis subject assessment (take during semester 2) or a content knowledge GPA of 3.0 posted on transcript; and
- Completion of disposition and field evaluation in CURRINS 406.

A mandatory meeting with your academic advisor will be required if you have not met the above gateway checks.

Students pursuing the ESL minor are required to complete additional testing requirements. Please see your academic advisor for details.

For additional opportunities, see the Bilingual Supplemental Certification Program (p. 558).

Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting

- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
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- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours

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Transfer Student Not Yet Enrolled at UWM?

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Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.
Honors in the School of Education

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

 Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

English as a Second Language, Minor

A teaching certification in English as a Second Language (ESL) is for those who wish to teach English to non-native speakers. Students wishing to pursue a minor in ESL must be in the process of obtaining, or already have, a certification to teach at the Early Childhood, Early Childhood Through Adolescence, Middle Childhood Through Early Adolescence, or Early Adolescence Through Adolescence level.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 503</td>
<td>Assessment Issues in Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 546</td>
<td>Language, Content, and Comprehensible Input</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 655</td>
<td>Applied Educational Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>Student Teaching 1</td>
<td>Student Teaching in English as a Second Language: Minor</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 445</td>
<td>Seminar in Language Education</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

1 Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 600) for details.

Additional Requirements for Certification

- Minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Undergraduate students must meet the graduation requirements for their primary certification; and
- Program Portfolio completion - based on the 10 WI Teacher Standards.

Benchmarks

Student Teaching

Students must complete an application to request/be assigned a student teaching placement. Deadlines for submission are posted by the Office of Clinical Experiences. (http://uwm.edu/education/academics/clinical-experiences)

To be approved, students must ALSO meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student’s faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.
- Have a minimum 2.75 GPA in all content area and professional education courses.
- Passing scores reflected on your transcript for the Praxis II exam: English to Speakers of Other Languages: Content Knowledge #5361.
- Removal of all F and/or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experiences.

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Exceptional Education, BS: Early Adolescence - Adolescence
The Early Adolescence-Adolescence (EAA) Special Education program leads to a Bachelor of Science in Exceptional Education. Upon completion of the program and other license requirements, students will be eligible to apply for a Cross-Categorical Special Education Teaching License from the Wisconsin Department of Public Instruction for ages 10-21 (grades 6 through 12). If you already hold a Bachelor's Degree, you can earn EAA Special Education Teacher Certification as a Post-Baccalaureate student.

Our faculty are recognized leaders in the field of Special Education with expertise in urban teaching, inclusive education, language and literacy and transition. Our program will prepare you to become a powerful, effective educator in a high-demand area.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG</td>
<td>University General Education Requirements*</td>
<td>30-42</td>
</tr>
<tr>
<td>P</td>
<td>Program Core*</td>
<td>30-31</td>
</tr>
<tr>
<td>P</td>
<td>Professional Requirements</td>
<td>55</td>
</tr>
<tr>
<td>P</td>
<td>Minimum credits for degree</td>
<td>120</td>
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</tbody>
</table>

*Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>GER</td>
<td>GER Competency Requirements</td>
<td></td>
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<tr>
<td>ENGL</td>
<td>English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better</td>
<td>0-3</td>
</tr>
</tbody>
</table>

Oral and Written Communication, Part B
Complete a GER-OWCB approved advanced course with a grade of C or better

Quantitative Literacy, Part A
Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better

Quantitative Literacy, Part B
Complete a GER-QLB approved advanced course with a grade of C or better

Foreign Language
Complete one of the following:
- 2 consecutive semesters of college instruction in a single foreign language with passing grades
- 2 consecutive years of high school instruction in a single foreign language with passing grades
- Demonstrate language proficiency on approved exam

GER Distribution Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART</td>
<td>Select an approved GER-A designated course</td>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM</td>
<td>Select two approved GER-HU designated courses</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI</td>
<td>Select two approved GER-SS designated courses</td>
<td>6</td>
</tr>
</tbody>
</table>

Cultural Diversity
Select one approved GER-CD designated course

Total Credits: 30-42

1 Program-specific recommendations and requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (ie. literature, biology, political science, etc) be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements

2 Program requires credits beyond university GER; see your advisor.

Admission to Program (p. 603)

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>Strategies for Academic Writing (GER-OWCB)</td>
<td>3</td>
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<tr>
<td>ENGL</td>
<td>Technical Writing (GER-OWCB)</td>
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<tr>
<td>ENGL</td>
<td>Introduction to English Studies (GER-OWCB)</td>
<td></td>
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<tr>
<td>ENGL</td>
<td>Rhetoric, Writing, and Culture: (GER-OWCB)</td>
<td></td>
</tr>
<tr>
<td>EXCE</td>
<td>Foundations of Autism Spectrum Disorders (GER-OWCB)</td>
<td></td>
</tr>
</tbody>
</table>

Highly recommended-choose one:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>Mathematical Literacy for College Students II (GER-QLA)</td>
<td>3</td>
</tr>
</tbody>
</table>
Exceptional Education, BS: Early Adolescence - Adolescence

MATH 103  Contemporary Applications of Mathematics (GER-QLA)
MATH 105  Introduction to College Algebra (GER-QLA)
MATH 108  Algebraic Literacy II (GER-QLA)
MATH 175  Mathematical Explorations for Elementary Teachers I (GER-QLA)

Highly recommended:
MATH 176  Mathematical Explorations for Elementary Teachers II (OWC-QLB) 3

Highly recommended:
COMSDIS 210  Survey of Communication Disorders (GER-SS) 3

Highly recommended:
Literature elective (GER-HU) 3

Highly recommended:
Biological Sciences elective (GER-NS or NS+) 3-4

Choose one: 3

ANTHRO 213  American Indian Peoples of Wisconsin (GER-CD, SS) 3
ENGLISH 276  Introduction to American Indian Literature: (GER-CD, HU) 3
AIS 203  Western Great Lakes American Indian Community Life of the Past (GER-CD, SS) 3
HIST 263  North American Indian History Since 1887 (GER-CD, SS) 3

Choose one:
HIST 151  American History: 1607 to 1877 (GER-SS) 3
HIST 152  American History: 1877 to the Present (GER-SS) 3
POL SCI 104  Introduction to American Government and Politics (GER-SS) 3
POL SCI 105  State Politics (GER-SS) 3
CURLINS 300  Introduction to Teaching: Colloquium and Fieldwork 3
EXCEDE 300  The Exceptional Individual 3
ED POL 375  Cultural Foundations of Education 3

Total Credits 30-31

3  Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

Professional Requirements
Students may enter the professional courses only after formal admission to the School of Education. The professional program consists of four semesters, including fieldwork/student teaching. Students must have a minimum grade of C or better in all professional coursework.

Code  Title  Credits
CURRINS 545  Reading in the Content Areas: Middle, Junior, and Senior High School 3
ED PSY 330  Introduction to Learning and Development 3
EXCEDE 635  Individualized Planning & Instructional Methods 3
CURRINS 643  Balanced Literacy Instruction in the Elementary School 3
Field Requirement 1.5 days per week or 135 hours
Year 1 - Spring
CURRINS 332  Teaching of Mathematics: Middle School 3
EXCEDE 595  Technology Applications for Diverse Learners 3
EXCEDE 636  Curriculum Accommodations 3
EXCEDE 662  Collaborative Strategies 3
EXCEDE 680  Literacy I 3
EXCEDE 586  Teaching Experience I 1
EXCEDE 486  Linking Seminar: Developing Reflective Practice 2
Field Requirement 2 days per week or 190 hours
Reading Test 4

Year 2 - Fall
EXCEDE 532  Assessment and Monitoring 3
EXCEDE 671  Behavior Support & Intervention for Mid/High Students with Disabilities 3
EXCEDE 679  Critical Issues in Transition Planning for Students with Disabilities 3
EXCEDE 587  Teaching Experience II 3
Field Requirement Half-days (M-F)
Praxis II Requirement 5

Year 2 - Spring
EXCEDE 488  Linking Seminar: Professional Development 1
CURRINS 543  Developing Biliteracy 3
EXCEDE 588  Teaching Experience III 9
Field Requirement Twenty weeks full-time (M-F)
Total Credits 55

4  It is strongly recommended that students take the reading test required for initial certification at the end of the first year of the professional sequence.
5  Praxis II requirement: All students are required to successfully complete the Praxis II examination prior to their final student teaching semester (spring II).

Submajor Completion Requirements (p. 603)
- Completion of EAA professional course sequence;
- Completion of a minimum of 53 GER and elective credits focused on content area(s) relevant for a Special Educator in middle and high school settings;
- Completion of university GER requirements;
- Completion of Act 31 requirement;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of a minimum of 120 degree credits;
- Minimum cumulative GPA of 2.75; and
- Minimum cumulative GPA of 2.75 in professional coursework.
Post-Baccalaureate Program

(Under revision; please see an advisor for information.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 586</td>
<td>Teaching Experience I</td>
<td>3</td>
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<tr>
<td>EXCEDUC 680</td>
<td>Literacy I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
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<tr>
<td>Year 1 - Fall (9 certification credits)</td>
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</tr>
<tr>
<td>EXCEDUC 587</td>
<td>Teaching Experience II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 635</td>
<td>Individualized Planning &amp; Instructional Methods</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 671</td>
<td>Behavior Support &amp; Intervention for Mid/High Students with Disabilities</td>
<td>3</td>
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<tr>
<td>Year 1 - Spring (10 certification credits)</td>
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<tr>
<td>Portfolio/Performance Review</td>
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<tr>
<td>EXCEDUC 587</td>
<td>Teaching Experience II</td>
<td>3</td>
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<tr>
<td>EXCEDUC 636</td>
<td>Curriculum Accommodations</td>
<td>3</td>
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<tr>
<td>CURRINS 332</td>
<td>Teaching of Mathematics: Middle School</td>
<td>3</td>
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<tr>
<td>EXCEDUC 486</td>
<td>Linking Seminar: Developing Reflective Practice</td>
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<tr>
<td>Year 2 - Summer (6 certification credits/6 graduate credits)</td>
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<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
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<tr>
<td>ED POL 530</td>
<td>Urban Education: Foundations</td>
<td>3</td>
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<tr>
<td>Year 2 - Fall (6 certification credits/9 graduate credits)</td>
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<tr>
<td>EXCEDUC 771</td>
<td>Field Work with Students Having Exceptional Education Needs (graduate students)</td>
<td>3</td>
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<tr>
<td>or EXCEDUC 588</td>
<td>Teaching Experience III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 532</td>
<td>Assessment and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 679</td>
<td>Critical Issues in Transition Planning for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>Year 2 - Spring (8 certification credits/6 graduate credits)</td>
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<tr>
<td>Portfolio/Performance Review</td>
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<tr>
<td>Select one of the following options with Advisor Approval:</td>
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<tr>
<td>Option 1:</td>
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<tr>
<td>EXCEDUC 588</td>
<td>Teaching Experience III</td>
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<tr>
<td>Option 2:</td>
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<tr>
<td>EXCEDUC 771</td>
<td>Field Work with Students Having Exceptional Education Needs (graduate students)</td>
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</tr>
<tr>
<td>Select one of the following for ESL Focus:</td>
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</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
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</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td></td>
</tr>
<tr>
<td>CURRINS 546</td>
<td>Language, Content, and Comprehensible Input</td>
<td></td>
</tr>
<tr>
<td>Option 3:</td>
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<tr>
<td>Focus area (e.g., Advanced Methods in Learning Disabilities, Assistive Tech)</td>
<td>3</td>
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<tr>
<td>EXCEDUC 496</td>
<td>Linking Seminar III: Middle/High - Professional Development</td>
<td>1</td>
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</tbody>
</table>

### Advance to Major

**Program Admission Requirements**

- Achieve a placement level 4 or higher on the English placement test, or complete ENGLISH 102 or an equivalent with a C or better (OWC-A);
- Score of 30 or higher on the Math placement test or MATH 103, MATH 105, MATH 175, or equivalent with a C or better (QL-A);
- Successful completion of a Wisconsin Approved Basic Skills Test;
- Completion of CURRINS 300 (or equivalent), with a C or better;
- Completion of EXCEDUC 300 (or equivalent), with a C or better;
- Completion of ED POL 375 (or equivalent), with a C or better;
- Completion of an approved advanced course (at least three credits) with significant written or oral communication component (OWC-B), with a C or better (recommendations: EXCEDUC 560, ENGLISH 215, ENGLISH 240, ENGLISH 201, ED POL 375, or equivalent);
- Completion of an approved advanced course (at least three credits) making use of quantitative tools (QL-B), with a C or better (recommendations: PHILOS 211 or equivalent);
- Completion of a minimum of 45 credits at the time of application (must complete 58 by the time of program commencement) with a minimum of 37 successfully completed credits in GER/content area coursework;
- Maintain a cumulative GPA of 2.5;
- Completion of a program application; and
- Interview

### Benchmarks

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Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/ (http://uwm.edu/education/academics/clinical-experiences).

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Exceptional Education, BS: Early Childhood

The Early Childhood Special Education major leads to a Bachelor of Science in Exceptional Education. Upon completion, students will be eligible to apply for a Cross-Categorical Special Education Teaching License from the Wisconsin Department of Public Instruction for ages birth to eight, grades birth-3rd. Special Education teachers who specialize in early childhood are currently in high demand, according to the U.S. Bureau of Labor Statistics.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements *</td>
<td>30-42</td>
</tr>
<tr>
<td></td>
<td>Program Core</td>
<td>30-32</td>
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<tr>
<td></td>
<td>Professional Requirements</td>
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<tr>
<td></td>
<td>Minimum credits for degree</td>
<td>120</td>
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</table>

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University General Education Requirements

GER Competency Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
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<td>Oral and Written Communication, Part A</td>
<td>0-3</td>
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<tr>
<td>English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better</td>
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<td></td>
</tr>
<tr>
<td>Oral and Written Communication, Part B</td>
<td>3</td>
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</tr>
<tr>
<td>Complete a GER-OWCB approved advanced course with a grade of C or better</td>
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<td></td>
</tr>
<tr>
<td>Quantitative Literacy, Part A</td>
<td>0-3</td>
<td></td>
</tr>
<tr>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better</td>
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<td></td>
</tr>
<tr>
<td>Quantitative Literacy, Part B</td>
<td>3</td>
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</tr>
<tr>
<td>Complete a GER-QLB approved advanced course with a grade of C or better</td>
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<tr>
<td>Foreign Language</td>
<td>0-6</td>
<td></td>
</tr>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
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</tr>
<tr>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demonstrate language proficiency on approved exam</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GER Distribution Requirements

Arts | 3
- Select one approved GER-A designated course

Humanities | 6
- Select two approved GER-HU designated courses

Social Sciences | 6
- Select two approved GER-SS designated courses

Natural Sciences | 6
- Select one approved GER-NS or GER-NS+ designated course
- Select one approved GER-NS+ designated course, which includes a lab component

Cultural Diversity | 3
Select one approved GER-CD designated course

Total Credits 30-42

1 Program-specific requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (i.e., literature, biology, political science, etc) to be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements.

2 Program requires credits beyond university GER; see program requirements below.

Program Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (GER-OWCB)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing (GER-OWCB)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I (GER-QLA)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II (GER-QLB)</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin (GER-CD, SS)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, HU)</td>
<td>3</td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, SS)</td>
<td>3</td>
</tr>
<tr>
<td>ART ED 130</td>
<td>Multicultural Art and Visual Learning in Elementary Education (GER-A, CD)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking (GER-HU)</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science (GER-NS)</td>
<td>3</td>
</tr>
<tr>
<td>Earth Science elective (GER-NS or GER-NS+: Aston, Atm Sci, Geog, or Geo Sci)</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Physical Science elective (GER-NS or GER-NS+: Chem or Physics)</td>
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</tbody>
</table>

Total Credits 30-32

Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

Professional Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 140</td>
<td>Field Experience with Families &amp; Communities</td>
<td>1</td>
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<tr>
<td>CURRINS 312</td>
<td>Models and Issues for Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 240</td>
<td>Field Experience with Dual Language Learners</td>
<td>2</td>
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Semester 4

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CURRINS 501</td>
<td>Language Acquisition for Children of Diverse Backgrounds</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 302</td>
<td>Curriculum Design in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 340</td>
<td>Field Experience in Preschool and Kindergarten Classrooms</td>
<td>2</td>
</tr>
<tr>
<td>or CURRINS 440</td>
<td>Field Experience in the Primary Grades</td>
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<tr>
<td>CURRINS 502</td>
<td>Emergent Literacy and Biliteracy in the Early Childhood Classroom</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester 5

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EXCEDUC 569</td>
<td>Curriculum and Methods for Special Education: Preschool</td>
<td>3</td>
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<tr>
<td>EXCEDUC 648</td>
<td>Early Childhood Special Education Field Experience: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 330</td>
<td>Teaching of Mathematics: Early Childhood</td>
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Semester 6

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EXCEDUC 570</td>
<td>Curriculum and Methods for Special Education: Primary</td>
<td>3</td>
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<tr>
<td>EXCEDUC 649</td>
<td>Early Childhood Special Education Field Experience: Primary</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY/EXCEDUC 613</td>
<td>Infant and Early Childhood Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 504</td>
<td>Methods for Biliteracy and Language Arts in Primary Grades</td>
<td>3</td>
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</tbody>
</table>

Semester 7

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>EXCEDUC 568</td>
<td>Curriculum and Methods for Special Education: Birth to Three</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 647</td>
<td>Early Childhood Special Education Field Experience: 0 to 3 Yrs</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 682</td>
<td>Language and Literacy in Early Childhood Special Education</td>
<td>3</td>
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</tbody>
</table>

Semester 8

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EXCEDUC 481</td>
<td>Student Teaching with Students Having Early Childhood Exceptional Ed Needs</td>
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<tr>
<td>CURRINS/EXCEDUC 376</td>
<td>Understanding and Developing the edTPA</td>
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Other Required Professional Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS ED 260</td>
<td>Making Music Connections with Children</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 630</td>
<td>Survey of EC Intervention: Young Children with Special Needs, Families</td>
<td>3</td>
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</table>
| CURRINS/EXCEDUC 613| Collaborations for Teachers with Families, Schools, and Communities | 3 | Electives

Select electives to ensure the minimum 120 credits required for graduation

Total Credits 71

Exceptional Education, Early Childhood Submajor Completion Requirements

- Completion of program requirements;
- Completion of university GER;
- Completion of a minimum of 120 credits;
• Completion of the last year of coursework (30 credits) in residence at UWM;
• Minimum cumulative GPA of 2.75 in UWM and transfer credits; and
• Minimum cumulative GPA of 2.75 in professional coursework

See your advisor for additional requirements for certification.

Post-baccalaureate Program
(Under revision; please see an advisor for information.)

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td><strong>Year 1 - Summer</strong></td>
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<tr>
<td>CURRENS 302</td>
<td>Curriculum Design in Early Childhood</td>
<td>3</td>
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<tr>
<td>EXCEDUC 630</td>
<td>Survey of EC Intervention: Young Children with Special Needs, Families</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 1 - Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 569</td>
<td>Curriculum and Methods for Special Education: Preschool</td>
<td>3</td>
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<tr>
<td>EXCEDUC 648</td>
<td>Early Childhood Special Education Field Experience: Preschool</td>
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<tr>
<td>CURRENS 502</td>
<td>Emergent Literacy and Biliteracy in the Early Childhood Classroom</td>
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<tr>
<td><strong>Year 1 - Spring</strong></td>
<td></td>
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<tr>
<td>CURRENS 504</td>
<td>Methods for Biliteracy and Language Arts in Primary Grades</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 570</td>
<td>Curriculum and Methods for Special Education: Primary</td>
<td>3</td>
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<tr>
<td>EXCEDUC 649</td>
<td>Early Childhood Special Education Field Experience: Primary</td>
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<tr>
<td><strong>Year 2 - Summer</strong></td>
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<tr>
<td>EXCEDUC 568</td>
<td>Curriculum and Methods for Special Education: Birth to Three</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 647</td>
<td>Early Childhood Special Education Field Experience: 0 to 3 Yrs</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 2 - Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 682</td>
<td>Language and Literacy in Early Childhood Special Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRENS 330</td>
<td>Teaching of Mathematics: Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
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<tr>
<td>or ED PSY 640</td>
<td>Human Development: Theory and Research</td>
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<tr>
<td><strong>Year 2 - Spring</strong></td>
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<tr>
<td>EXCEDUC 652</td>
<td>Developmental Evaluation of Young Children with Disabilities</td>
<td>3</td>
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<tr>
<td>EXCEDUC 651</td>
<td>Working With Families in Urban Communities</td>
<td>3</td>
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<tr>
<td><strong>Other Teaching Experience Requirements</strong></td>
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<tr>
<td>EXCEDUC 481</td>
<td>Student Teaching with Students Having Early Childhood Exceptional Ed Needs</td>
<td>3</td>
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<tr>
<td>or EXCEDUC 776</td>
<td>Fieldwork with Students Having Early Childhood-Exceptional Education Needs</td>
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<tr>
<td>CURRENS 400</td>
<td>Field Work in Curriculum and Instruction.</td>
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<td><strong>Total Credits</strong></td>
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<td>49-54</td>
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</table>

Advance to Major

Admission to Program
See academic advisor.

Benchmarks

Student Teaching
Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/(http://uwm.edu/education/academics/clinical-experiences).

Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

How to Prepare for an Advising Meeting

• Review your Advisement Report in PAWS (http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement).
• Come prepared with questions or topics for discussion.
• Make a list of courses you think you should take.
• Investigate opportunities to prepare for the job you want.
• Keep a record of your academic progress.
• Understand you are ultimately responsible for creating your educational, life, and career plans.
• Maintain honest and open communication with your advisor.
• Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment

Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Transfer Student Not Yet Enrolled at UWM?
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in
your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

Honors in the School of Education

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Exceptional Education, BS: Middle Childhood - Early Adolescence

The Middle Childhood through Early Adolescence Program (MCEA) for Special Education is designed for students seeking to teach at the middle childhood-early adolescence level, ages 6-12 or 13, in 1st through 8th grade. This program prepares students to work in urban settings and takes place in close partnership with local school districts.

The UWM School of Education’s urban mission is upheld in the MCEA program’s commitment to preparing pre-service teachers to meet the needs of diverse populations. Students are admitted into the MCEA program upon admission to the University and completion of pre-professional coursework. It is possible to complete the program in four years. This is a field-based program involving gradual and extensive work in urban schools. Upon successful completion of all student teaching requirements, including several state required assessments, students will be licensed to teach grades 1st through 8th in Special Education.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University General Education Requirements*</td>
<td>30-42</td>
</tr>
<tr>
<td></td>
<td>Program Core*</td>
<td>42-43</td>
</tr>
<tr>
<td></td>
<td>Professional Requirements</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Content Area*</td>
<td>18</td>
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<tr>
<td></td>
<td>Minimum credits for degree</td>
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</tbody>
</table>

*Requirement credit totals vary based on student test scores, previous area-specific knowledge, and GER course choice.

University General Education Requirements (GER)

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<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>GER Competency Requirements</td>
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</tr>
<tr>
<td></td>
<td>Oral and Written Communication, Part A</td>
<td>0-3</td>
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<tr>
<td></td>
<td>English Placement Test score at level 4 or higher, or pass English 102 with a grade of C or better</td>
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<tr>
<td></td>
<td>Oral and Written Communication, Part B</td>
<td>3</td>
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<tr>
<td></td>
<td>Complete a GER-OWCB approved advanced course with a grade of C or better</td>
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<tr>
<td></td>
<td>Quantitative Literacy, Part A</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Math Placement Test code 30 or higher, or pass Math 102, 103, 105, or 175 with a grade of C or better</td>
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</tr>
<tr>
<td></td>
<td>Quantitative Literacy, Part B</td>
<td>3</td>
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<tr>
<td></td>
<td>Complete a GER-QLB approved advanced course with a grade of C or better</td>
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<tr>
<td></td>
<td>Foreign Language</td>
<td>0-6</td>
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<tr>
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<td>Complete one of the following:</td>
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<tr>
<td></td>
<td>2 consecutive semesters of college instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 consecutive years of high school instruction in a single foreign language with passing grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Demonstrate language proficiency on approved exam</td>
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<tr>
<td></td>
<td>GER Distribution Requirements</td>
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</tr>
<tr>
<td></td>
<td>Arts</td>
<td>3</td>
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<td></td>
<td>Select one approved GER-A designated course</td>
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<td></td>
<td>Humanities</td>
<td>6</td>
</tr>
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<td>Select two approved GER-HU designated courses</td>
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<tr>
<td></td>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select two approved GER-SS designated courses</td>
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<tr>
<td></td>
<td>Natural Sciences</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-NS or GER-NS+ designated course</td>
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<td></td>
<td>Cultural Diversity</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one approved GER-CD designated course</td>
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</tbody>
</table>

Total Credits 30-42

1 Program-specific recommendations and requirements fulfill, or partially fulfill, University GER requirements. Program identifies certain course categories (e.g., literature, biology, political science, etc) be used to fulfill some GERs in order to meet PI 34 Statutory Requirements and/or program requirements.

Admission to Program (p. 608)

Program Core

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 201</td>
<td>Strategies for Academic Writing (GER-OWCB)</td>
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<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I (OWC-QLA)</td>
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<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II (OWC-QLB)</td>
<td>3</td>
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</tbody>
</table>

Choose one: 2

- University of Wisconsin-Milwaukee
ANTHRO 213 American Indian Peoples of Wisconsin (GER-CD, SS)
ENGLISH 276 Introduction to American Indian Literature: (GER-CD, HU)
AIS 203 Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)
HIST 263 North American Indian History Since 1887 (GER-CD, HU)
THEATRE 260 Storytelling: (GER-A)
CURRINS 233 Introduction to Children’s and Young Adult Literature (GER-HU)
English Elective 3
CES 210 Introduction to Conservation and Environmental Science (GER-NS)
Natural Science elective (GER-NS+) 3-4
ED POL 375 Cultural Foundations of Education 3
Choose one:
HIST 151 American History: 1607 to 1877 (GER-SS)
HIST 152 American History: 1877 to the Present (GER-SS)
Social Science Elective (GER-SS) 3
CURRINS 300 Introduction to Teaching: Colloquium and Fieldwork 3
CURRINS 333 Introduction to Teaching, Grades 1-8 3
ED PSY 330 Introduction to Learning and Development 3
EXCEDUC 605 Child, Learner, Disabilities 3
EXCEDUC 601 Behavioral Supports 3
EXCEDUC 595 Technology Applications for Diverse Learners 3
Total Credits 42-43

Content Area

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: (GER-CD, HU)</td>
<td>3</td>
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<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887 (GER-CD, HU)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling: (GER-A)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children’s and Young Adult Literature (GER-HU)</td>
<td>3</td>
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</table>

English Elective 3
CES 210 Introduction to Conservation and Environmental Science (GER-NS) 3
Natural Science elective (GER-NS+) 3-4
ED POL 375 Cultural Foundations of Education 3
Choose one:
HIST 151 American History: 1607 to 1877 (GER-SS) 3
HIST 152 American History: 1877 to the Present (GER-SS) 3
Social Science Elective (GER-SS) 3
CURRINS 300 Introduction to Teaching: Colloquium and Fieldwork 3
CURRINS 333 Introduction to Teaching, Grades 1-8 3
ED PSY 330 Introduction to Learning and Development 3
EXCEDUC 605 Child, Learner, Disabilities 3
EXCEDUC 601 Behavioral Supports 3
EXCEDUC 595 Technology Applications for Diverse Learners 3
Total Credits 42-43

Content Focus Area Coursework

<table>
<thead>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877 (GER-SS)</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

Advanced Education Degree, MCEA Submajor Completion Requirements

- Completion of University GER;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of the ePortfolio; and
- Completion of a minimum 120 degree credits.

Certification Requirements

- Demonstration of content knowledge proficiency through one of the following:
  - Achieve a cumulative grade point average of 3.0 or above in prescribed content courses;
  - A passing score on the PRAXIS II #5146; or
  - A Content Knowledge Portfolio.
- Passing score on the Wisconsin Foundations of Reading test;
- Passing score on the edTPA;
- Completion of ACT 31 requirement;
- Minimum cumulative GPA of 2.75 in all UWM and transfer courses; and
- Minimum cumulative GPA of 2.75 and a C or better in all professional courses.

Advance to Major

Program Admission Requirements

- At least 45 credits of Pre-Professional Coursework completed with a minimum cumulative GPA of 2.5;
- Minimum cumulative grade point average of 2.5 and a C or better in all required courses;
- Grade of C or better in CURRINS 300 or CURRINS 333 and a positive field evaluation or equivalent;
• Grade of C or better in MATH 175 and ENGLISH 102 (or placement of 4 or higher on English placement test); and
• Successful application and interview.

**Benchmarks**

**Student Teaching**

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/ (http://uwm.edu/education/academics/clinical-experiences).

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**Special Education Dual Certificate Program (5th year)**

In partnership with Department of Curriculum and Instruction, the fifth-year program is geared toward undergraduates who are interested in becoming special educators. After successfully completing the regular education MCEA program, students are admitted into the fifth-year special education option. Many students receive their bachelor’s degrees upon completion of UWM’s collaborative regular education program, while others complete the fifth-year special education option as part of a master’s degree program. Please contact the Office of Student Services at 414-229-4721 or soeoss@uwm.edu (soeoss@uwm.edu) for program information and requirements.

**Honors in the School of Education**

**Dean's Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Exceptional Education, MS**

The Department of Exceptional Education offers two options for a program of study at the master’s level: a general option or a certification option. Students choosing the General Option enroll in 12 credits of core requirements and 18 credits that reflect a focus area of study. Students following the Certification Option enroll in 12 credits of core requirements and apply 18 credits of their certification credits, taken at the graduate level, to the degree. This program is created in consultation with a faculty advisor. Students choosing the Certification Option must be accepted into one of the Department of Exceptional Education’s Post-Baccalaureate Teacher Certification Programs as well as the Graduate Program. Certification programs include:
• Early Childhood Education (0-8 yrs),
• Primary/Middle and Middle/Secondary Education (grades K-9 or 6-12 in the areas of learning disabilities, cognitive disabilities, and emotional disturbance),
• Deaf and Hard of Hearing (grades K-12).

Up to 15 credits of coursework in the certification program may be applied to the Master’s degree in addition to 15 credits of core requirements.

Under the auspices of the PhD program in Urban Education, the Department offers doctoral level training with a designated specialization in Exceptional Education.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

• Personal interview to determine an applicant’s basis for seeking admission, potential for completion of the program, and relevant background and experience in exceptional education.

Credits and Courses

The minimum degree requirement is 30 graduate credits, of which 18 credits must be in the Department of Exceptional Education. The remaining credits may be taken either in or outside of the School of Education. Courses in either the Certification Option or General Option are determined in consultation with an advisor from suggested course options identified by the Department.

Program Core Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 715</td>
<td>Issues and Trends in Exceptional Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 770</td>
<td>Seminar: Research on Individuals With Special Needs</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Issues or Methods in Urban Special Education (determined in collaboration with a faculty advisor).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 890</td>
<td>Master’s Research Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 12

Certification Option (Up to 15 credits)
A student pursuing the Certification Option must be admitted to the Department of Exceptional Education’s Post-Baccalaureate Teacher Certification Program (consult Undergraduate Bulletin for more information on admission dates and requirements). In consultation with an advisor, a student selects up to 18 credits of coursework required in the certification program for graduate credit. Additionally, the student enrolls in 12 credits of program core requirements. Listed below are the courses in each of the certification programs that can be taken for graduate credit.

### Instruction

#### Middle Childhood/Early Adolescence (MCEA)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 681</td>
<td>Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 662</td>
<td>Collaborative Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 532</td>
<td>Assessment and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 574</td>
<td>Curriculum Accommodations II: Primary/Middle</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 601</td>
<td>Behavioral Supports</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 588</td>
<td>Teaching Experience III</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Deaf/Hard of Hearing (DHH)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 562</td>
<td>Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 563</td>
<td>Speechreading/Auditory Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 533</td>
<td>Assessment/Monitoring: Deaf &amp; Hard of Hearing</td>
<td>1</td>
</tr>
<tr>
<td>EXCEDUC 564</td>
<td>Communication Methods Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 565</td>
<td>Subjects to Teaching School</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 671</td>
<td>Behavior Support &amp; Intervention for Mid/High Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 587</td>
<td>Teaching Experience II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 588</td>
<td>Teaching Experience III</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Early Adolescence/Adolescence (EAA)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 635</td>
<td>Individualized Planning &amp; Instructional Methods</td>
<td>2</td>
</tr>
<tr>
<td>EXCEDUC 681</td>
<td>Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Areas: Middle, Junior, and Senior High School</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 532</td>
<td>Assessment and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 636</td>
<td>Curriculum Accommodations</td>
<td>2</td>
</tr>
<tr>
<td>EXCEDUC 662</td>
<td>Collaborative Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 576</td>
<td>Curriculum Accommodations III: Functional for Middel to High Students</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Early Childhood Special Education (ECSE)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 569</td>
<td>Curriculum and Methods for Special Education: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 648</td>
<td>Early Childhood Special Education Field Experience: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 570</td>
<td>Curriculum and Methods for Special Education: Primary</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 649</td>
<td>Early Childhood Special Education Field Experience: Primary</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 568</td>
<td>Curriculum and Methods for Special Education: Birth to Three</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 647</td>
<td>Early Childhood Special Education Field Experience: 0 to 3 Yrs</td>
<td>3</td>
</tr>
</tbody>
</table>
EXCEDUC/CURRINS 612 Collaborations for Teachers with Families, Schools, and Communities 3
EXCEDUC 586 Teaching Experience I 3
EXCEDUC/ED PSY 613 Infant and Early Childhood Assessment 3
EXCEDUC 682 Language and Literacy in Early Childhood Special Education 3
EXCEDUC 776 Fieldwork with Students Having Early Childhood-Exceptional Education Needs 3

Administration and Supervision
In cooperation with Administrative Leadership

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EXCEDUC 579</td>
<td>Current Topics in Exceptional Education:</td>
<td>1-3</td>
</tr>
<tr>
<td>EXCEDUC 780</td>
<td>Internship in Special Education Administration</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 805</td>
<td>Legislative and Legal Aspects of Exceptional Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 960</td>
<td>Seminar: Administration/Supervision of Programs for Exceptional Individuals</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 10-12

General Option (15 credits)
The general option for a Master’s program in the Department of Exceptional Education is developed by identifying a theme of study that is based upon the student’s educational background, areas of professional interest, and professional development goals. A theme, for example, may focus on assessment, instruction, policy, or other relevant issues in the area of special education. Courses are selected in consultation with a faculty advisor.

Program Requirements

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

Thesis
A thesis or master’s project is required for all students in the certification and general options. All students are required to present the results of their thesis or project at a seminar session in the semester in which they complete their degree.

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

Doctor of Philosophy in Urban Education Specialization in Exceptional Education
Under the auspices of the doctoral program in Urban Education, the Department of Exceptional Education provides doctoral training with a specialization in Exceptional Education. The program emphasizes the study of the socio-cultural context, educational policy, research-based practices, and systems change and reform to support learning and development of individuals with disabilities. Prospective doctoral students wishing to specialize in Exceptional Education must first be admitted to the Urban Education Doctoral Program. Admission and general program requirements can be obtained from the Director of Doctoral Studies in Urban Education. This program is described in detail on the Urban Education (http://uwm.edu/graduateschool/urban-education) program page.

Inclusion and Accessibility Studies, Minor
The Inclusion and Accessibility Studies Minor will enable individuals from a variety of fields to have a foundational body of knowledge that will aid them in working with individuals with disability labels. Creating access to services and spaces in society is an important responsibility for all individuals; the minor in Inclusion and Accessibility Studies is applicable to undergraduates in a variety of fields, including: General and Special Education Teachers, Criminal Justice, Speech and Hearing Science, Business Administration, Occupational Science/Occupational Therapy, Physical Therapy, Nursing, the Arts, American Sign Language Studies, and American Sign Language interpreting.

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<th>Code</th>
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<tbody>
<tr>
<td>EXCEDUC 547</td>
<td>Comparative Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 548</td>
<td>Introduction to Disability Studies</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 503</td>
<td>Job Development and On the Job Support for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 505</td>
<td>Transition Assessment for Individuals with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 650</td>
<td>Foundations of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 651</td>
<td>Methods for Working with Individuals with Autism Spectrum Disorders</td>
<td>3</td>
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<tr>
<td>EXCEDUC 505</td>
<td>Transition Assessment for Individuals with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 650</td>
<td>Foundations of Autism Spectrum Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 651</td>
<td>Methods for Working with Individuals with Autism Spectrum Disorders</td>
<td>3</td>
</tr>
</tbody>
</table>
**Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate**

This graduate certificate program offers a unique opportunity for students interested in language and literacy intervention to gain and apply knowledge about research, theory and practice across a variety of relevant disciplines. Prospective language and literacy specialists venturing into today’s school environments would benefit from an understanding of leadership, teaching and learning theory, research, and effective practice across the broad range of disciplines involved in interventions. Successful interventionists require many tools to teach, as well as the skills to know when and how to apply those tools. These skills come from a critical, reflective understanding of the research and theory, as well as a complex problem-solving approach to assessment and instruction. The 16-credit certificate program is multi-disciplinary, drawing upon current coursework in Educational Psychology, Curriculum and Instruction, and Exceptional Education in the School of Education, as well as courses in Communication Sciences and Disorders in the College of Health Sciences.

**Completion**

- 18 credits, at least 9 at the 300 level and above;
- Minimum GPA of 2.5 on all credits in the minor, including UWM and transfer credits

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**EXCEDUC 585** Supervised Practicum in Child and Youth Care 3

**Strand 3: American Sign Language**

- EXCEDUC 301 American Sign Language I 3
- EXCEDUC 330 Deaf History 3
- EXCEDUC 352 American Deaf Culture 3

**Strand 4: Global Studies**

- EXCEDUC 297 Study Abroad: 9
  or EXCEDUC 497 Study Abroad:

**Strand 5: Design and Accessibility in the Community**

- THERREC 303 Inclusive and Disability Programs in the Community 3
- OCCTHPY 401 Overview of Medical Conditions 3
- OCCTHPY 625 Design and Disability 3

**Completion**

- 18 credits, at least 9 at the 300 level and above;
- Minimum GPA of 2.5 on all credits in the minor, including UWM and transfer credits

---

**Admission Requirements**

**Application Deadlines**

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**Admission**

Applicants must have completed a bachelor’s degree prior to admission, must have a minimum 2.75 cumulative undergraduate grade point average. Applicants with a graduate degree must have a minimum 3.0 graduate grade point average.

**Application**

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

## Credits and Courses
### Sixteen credits are required as indicated below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED PSY/LINGUIS 748</td>
<td>Oral Language, Cognition, and Literacy</td>
<td>3</td>
</tr>
<tr>
<td><strong>Language and Literacy Intervention Electives</strong></td>
<td>Select 12 credits from the following:</td>
<td>12</td>
</tr>
<tr>
<td>COMSDIS 661</td>
<td>The Role of the Speech-language Pathologist in Literacy</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 799</td>
<td>Independent Studies (Application of Theory to Learning Activities (1 credit))</td>
<td></td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td></td>
</tr>
<tr>
<td>CURRINS 646</td>
<td>University of Wisconsin System Reading Research Symposium</td>
<td></td>
</tr>
<tr>
<td>CURRINS 647</td>
<td>Early Reading Empowerment: Part 1</td>
<td></td>
</tr>
<tr>
<td>CURRINS 648</td>
<td>Early Reading Empowerment: Part 2</td>
<td></td>
</tr>
<tr>
<td>CURRINS 747</td>
<td>Reading Assessment and Instruction with Practicum: K-12 Part I</td>
<td></td>
</tr>
<tr>
<td>CURRINS 748</td>
<td>Reading Assessment and Instruction with Practicum, K-12: Part II</td>
<td></td>
</tr>
<tr>
<td>CURRINS 746</td>
<td>Seminar in Developmental Reading: (with the topic of “Current Trends in Literacy”)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 749</td>
<td>Guiding and Directing School Reading Programs K-12</td>
<td></td>
</tr>
<tr>
<td>CURRINS 740</td>
<td>UWM Writing Project: Teachers as Writers</td>
<td></td>
</tr>
<tr>
<td>CURRINS 741</td>
<td>UWM Writing Project: Teacher Leadership in Writing</td>
<td></td>
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<tr>
<td>ED PSY 760</td>
<td>Academic Intervention and Alternative Assessment</td>
<td></td>
</tr>
<tr>
<td>ED PSY 779</td>
<td>Current Topics in Educational Psychology, (with the topic of “Self-Regulation Assessment and Interventions”)</td>
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</tr>
<tr>
<td>ED PSY 852</td>
<td>Social, Psychological, and Biological Basis of Learning Disorders</td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 685</td>
<td>Advanced Methods in Learning Disabilities</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 570</td>
<td>Issues in Bilingualism</td>
<td></td>
</tr>
<tr>
<td>Other LINGUIS courses upon approval of the Certificate Director</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Required Core Capstone</strong></td>
<td>ILLI Capstone — Independent Study with advisor</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

### Certificate Requirements

#### Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

#### Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

#### Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

#### Time Limit
Certificate program time limits shall be established as follows:
- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

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

### Mathematics Teacher Leadership, Graduate Certificate
This certificate program provides teachers with current professional knowledge of mathematics teaching, learning trajectories, and assessment. It also imparts mathematical knowledge specialized for teaching and content-focused coaching strategies to improve instruction and student learning in mathematics.

Certificate completers will be positioned to contribute mathematics leadership as members of collaborative professional learning communities in schools, school districts, and other educational settings.

### Admission Requirements

#### Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office.
at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

Applicants must have completed a bachelor’s degree with a 2.75 undergraduate GPA or a graduate degree with a minimum 3.0 GPA and must have teaching experience in mathematics.

**Application**

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

**Credits and Courses**

Students complete 15-credits of coursework, including courses in instructional improvement, mathematics education, and mathematics instruction leadership.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Instructional Improvement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3-6 credits from the following:</td>
<td>3-6</td>
</tr>
<tr>
<td>CURRINS 560</td>
<td>Improving Mathematics Teaching and Learning: (Subtitled)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 714</td>
<td>Analysis of Instruction to Improve Teaching and Learning</td>
<td></td>
</tr>
<tr>
<td>CURRINS 715</td>
<td>Guiding Instructional Improvement</td>
<td></td>
</tr>
<tr>
<td>CURRINS 725</td>
<td>Improving Teaching and Learning with Classroom-Based Assessments</td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics Education</strong></td>
<td></td>
<td>6-10</td>
</tr>
<tr>
<td></td>
<td>Select 6-10 credits from the following:</td>
<td></td>
</tr>
<tr>
<td>CURRINS 580</td>
<td>Mathematics Education: (Subtitled)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 720</td>
<td>Curriculum and Standards for School Mathematics</td>
<td></td>
</tr>
<tr>
<td>CURRINS 624</td>
<td>Instructional Trajectories for Fraction Concepts and Operations</td>
<td></td>
</tr>
<tr>
<td>CURRINS 625</td>
<td>Principles and Practices of Teaching Geometry and Geometric Thinking</td>
<td></td>
</tr>
<tr>
<td>CURRINS 626</td>
<td>Principles and Practices of Teaching Algebraic Reasoning</td>
<td></td>
</tr>
<tr>
<td>CURRINS 730</td>
<td>Mathematics in Elementary Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 731</td>
<td>Mathematics in the Secondary School</td>
<td></td>
</tr>
<tr>
<td>CURRINS 779</td>
<td>Current Topics in Curriculum and Instruction: (Mathematics education subtitle)</td>
<td></td>
</tr>
<tr>
<td><strong>Capstone</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CURRINS 761</td>
<td>Mathematics Instructional Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**

12-19

---

**Certificate Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. Transfer credits will be considered only if the applicant can provide evidence that the course is substantially the same as an approved course in the certificate program. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

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

**Articulation with Degree Programs**

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in a degree. (Note: Students in Ph.D. programs must still complete the degree. (Note: Students in Ph.D. programs must still complete the degree.

**Time Limit**

Certificate program time limits shall be established as follows:

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

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

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**Transition for Students with Disabilities, Graduate Certificate**

The Transition for Students with Disabilities Graduate Certificate provides students with increased knowledge and awareness of state-of-the-art transition planning, as well as experience with specific strategies related to transition assessment, instruction, and community/business collaboration. Those who complete the Transition for Students with Disabilities Certificate program will be able to critically examine and implement effective transition planning while ensuring students are accessing the general education curriculum; effectively collaborate with the business and general community to access work and post-secondary experiences for students with disabilities; implement customized job development strategies to meet the needs of students and the business; identify and collaborate with various community based organizations; learn strategies to develop self-determination and self-advocacy skills for
students with disabilities; and understand cultural and ethnic diversity issues related to transition planning.

The courses are aligned with the APSE (www.apse.org (http://www.apse.org)) professional standards and will provide the knowledge and skills to pass the national Certification of Employment Support Professionals (CESP).

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

Applicants must have completed a bachelor’s degree prior to admission, with a minimum 2.75 cumulative undergraduate grade point average. Applicants with a graduate degree must have a minimum 3.0 graduate grade point average.

**Application**

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

**Credits and Courses**

The certificate requires a minimum of 15 credits. Students take five required courses and then, in consultation with the Program Coordinator, they may choose to take an optional 3 credit course in Business Management for more in-depth knowledge of working with the business community.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXCEDUC 679</td>
<td>Critical Issues in Transition Planning for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 703</td>
<td>Vocational Aspects in Rehabilitation and Exceptional Education</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 705</td>
<td>Understanding Culture and Ethnicity in the Transition Process</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 708</td>
<td>Student, Family &amp; Community Involvement in the Transition Planning Process</td>
<td>3</td>
</tr>
<tr>
<td>Optional</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional elective course:</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td></td>
</tr>
</tbody>
</table>

**Certificate Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

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

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
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   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

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

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

**World Language, Minor**

The World Languages minor is designed for individuals who wish to earn a Wisconsin teaching certification to teach a foreign language. Students wishing to pursue this certification must be in the process of obtaining or already have an initial certification.

**Requirements**

Students wishing to pursue this certification must be in the process of obtaining or already have an initial certification.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Content Area</td>
<td>15-21</td>
<td></td>
</tr>
<tr>
<td>Professional Education Requirements</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30-36</td>
<td></td>
</tr>
</tbody>
</table>

**Language Content Area**

Complete total credits in chosen language, plus any prerequisites.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chinese</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 200</td>
<td>Chinese Calligraphy</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
<td></td>
</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
<td></td>
</tr>
<tr>
<td>CHINESE 699</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 363</td>
<td>Chinese Literature in the Global Context:</td>
<td></td>
</tr>
<tr>
<td>GEOG 332</td>
<td>China: Peoples, Regions, and Development</td>
<td></td>
</tr>
<tr>
<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
<td></td>
</tr>
<tr>
<td>HIST 377</td>
<td>Modern China</td>
<td></td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 480</td>
<td>Chinese Painting</td>
<td></td>
</tr>
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</table>

Total Credits: 20

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>French</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRENCH 324</td>
<td>Contemporary French Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 325</td>
<td>Intensive Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 332</td>
<td>Reading French Texts</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 392</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 426</td>
<td>Growing Up French</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 428</td>
<td>Castles, Cathedrals, and Common People: The Foundations of French Culture</td>
<td></td>
</tr>
<tr>
<td>FRENCH 429</td>
<td>Royalty, Reason, and Revolution: The Golden Age of French Culture</td>
<td></td>
</tr>
<tr>
<td>FRENCH 430</td>
<td>Reaction and Innovation: French Culture of the 19th and 20th Centuries</td>
<td></td>
</tr>
<tr>
<td>FRENCH 431</td>
<td>Seminar in Literature of the Francophone World:</td>
<td></td>
</tr>
<tr>
<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures:</td>
<td></td>
</tr>
<tr>
<td>FRENCH 433</td>
<td>Seminar in French Literature:</td>
<td></td>
</tr>
<tr>
<td>FRENCH 450</td>
<td>Institutions and Culture of Contemporary France</td>
<td></td>
</tr>
<tr>
<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World: (FRENCH 351)</td>
<td></td>
</tr>
<tr>
<td>FRENCH 510</td>
<td>Seminar on Masterpieces of Literature Written in French:</td>
<td></td>
</tr>
<tr>
<td>FRENCH 592</td>
<td>Seminar in French Language:</td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>German</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GERMAN 331</td>
<td>Intermediate German Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 332</td>
<td>Intermediate Conversation and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 333</td>
<td>Analysis of German Texts</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 334</td>
<td>Introduction to German Literature and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 3 credits in a 400-level or higher German literature and culture elective

Choose 3 credits in a 400-level or higher German culture or linguistics elective

Total Credits: 18

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hebrew</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consult with a faculty or academic advisor regarding courses.</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITALIAN 310</td>
<td>Italian Immersion</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 311</td>
<td>Advanced Conversation and Composition: Contemporary Italian Usage</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 321</td>
<td>Introduction to Italian Literature</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 322</td>
<td>Introduction to Italian Literature and Film</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 3 credits in a 300-level or higher Italian elective

Total Credits: 18

1 Retake course to complete full credit amount required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LATIN 103</td>
<td>First Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 104</td>
<td>Second Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 205</td>
<td>Third Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 306</td>
<td>Readings in Latin Literature:</td>
<td>3</td>
</tr>
<tr>
<td>LATIN 508</td>
<td>Latin Prose Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 credits from the following: 3
### Additional Requirements for Certification

- Undergraduate students must meet the graduation requirements for their primary certification.
- Program Portfolio - based on the 10 WI Teacher Standards.

### Benchmarks

#### Student Teaching

Prior to requesting/being assigned a student teaching placement, students must:

- Demonstrate Foreign Language Proficiency - A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor.
- Complete an Immersion Experience - Required for all prospective language teachers, this requirement must be met by spending a semester or a year in a country where the chosen major language is spoken. Submit documentation of immersion experience to your academic advisor prior to student teaching placement.
- Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. ([http://uwm.edu/education/academics/clinical-experiences](http://uwm.edu/education/academics/clinical-experiences))

To be approved, students must **ALSO** meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student's faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.
- Have a minimum 2.75 GPA in all content area and professional education courses.
- Passing scores reflected on your transcript for the Praxis II exam: English to Speakers of Other Languages: Content Knowledge #5361.
- Removal of all F and/or I (incomplete) grades.
- Demonstrate Foreign Language Proficiency - A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor.
- Complete an Immersion Experience - Required for all prospective language teachers, this requirement must be met by spending a semester or a year in a country where the chosen major language is spoken. Submit documentation of immersion experience to your academic advisor prior to student teaching placement.
- Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. ([http://uwm.edu/education/academics/clinical-experiences](http://uwm.edu/education/academics/clinical-experiences))

#### Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

#### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS ([http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement](http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement)).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.

### Code Title Credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>308</td>
<td>Advanced Writing and Reading</td>
<td>3</td>
</tr>
<tr>
<td>318</td>
<td>Advanced Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>or 319</td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
<td>3</td>
</tr>
<tr>
<td>341</td>
<td>Introduction to Hispanic Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>350</td>
<td>Introduction to Literary Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>446</td>
<td>Hispanic Sociolinguistics</td>
<td></td>
</tr>
<tr>
<td>470</td>
<td>Survey of Hispanic Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>472</td>
<td>Survey of Spanish-American Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>474</td>
<td>Survey of Spanish Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>491</td>
<td>Topics in Hispanic Culture:</td>
<td></td>
</tr>
</tbody>
</table>

### Total Credits

- 15

### Professional Education Requirements

#### Code Title Credits

- CURRINS 542 History and Politics of Second Language Education: 3
- CURRINS 637 World Language Methods and Materials: 3
- CURRINS 639 Critical Issues and Methods in World Language Education: 3

### Student Teaching

#### Code Title Credits

- CURRINS 437 Student Teaching in World Language-Minor: 3
- CURRINS 445 Seminar in Language Education: 3

### Total Credits

- 15

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2 A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.

3 Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 617) for details.

4 Not required for students who are currently completing a portfolio in their major certification.

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For the full document, please see [University of Wisconsin-Milwaukee](http://uwm.edu/).
• Understand you are ultimately responsible for creating your educational, life, and career plans.
• Maintain honest and open communication with your advisor.
• Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

Scheduling an Appointment
Office of Student Services
Enderis Hall, Room 209
(414) 229-4721
soeinfo@uwm.edu

Walk-In Hours
Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

Transfer Student Not Yet Enrolled at UWM?
If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

Graduate Advising
If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

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A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology. Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state or local governmental agencies, community organizations, and the private sector.

Cooperating Departments

- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

Programs

- Urban Education, PhD (p. 644)
- Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL) (p. 621)
- Urban Education, PhD: Art Education (p. 624)
- Urban Education, PhD: Curriculum and Instruction (p. 627)
- Urban Education, PhD: Educational Administration (p. 629)
- Urban Education, PhD: Exceptional Education (p. 632)
- Urban Education, PhD: Mathematics Education (p. 635)
- Urban Education, PhD: Multicultural Studies (p. 638)
- Urban Education, PhD: Social Foundations of Education (p. 640)

Urban Education Courses

EDUC 701 Urban Educational Issues
3 cr. Graduate.
Advanced study of urban educational issues in contemporary American cultural context.
Prerequisites: grad st; admis to School of Educ doctoral prog.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

EDUC 801 Urban Education: Seminar in Multicultural Studies
3 cr. Graduate.
An overview of theory and research on multiculturalism with emphasis on applications of theory and research to practice in a variety of educational settings.
Prerequisites: admis to phd prog urban educ; Educ 701(P).
Current Offerings: http://uwm.edu/schedule

EDUC 881 Action Research
3 cr. Graduate.
Perspectives on action research, its forms in various contexts, and how it contributes to knowledge and improved practice.
Prerequisites: admis to Urban Ed PhD prog; Educ 701(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

EDUC 882 Multicultural Studies Practicum
3 cr. Graduate.
Intensive fieldwork/seminar with emphases on intercultural experience, integration of knowledge bases, and collaboration in community and university settings.
Prerequisites: Prreq: admis to Urban Ed PhD prog: Educ 881(P).
Last Taught: Summer 2002.
Current Offerings: http://uwm.edu/schedule

EDUC 900 Doctoral Seminar in Urban Education:
2-3 cr. Graduate.
Topics will vary. Overview of areas of study focuses upon problems in urban education. Emphasis placed upon research and potential research and potential search projects.
Prerequisites: admis to phd in urban educ prog.
Course Rules: May be repeated to max of 9 cr.
Current Offerings: http://uwm.edu/schedule
EDUC 901 Advanced Seminar in Urban Education
3 cr. Graduate.
A synthesis of research-based urban education issues. Focuses on
development of a literature review leading to a possible dissertation
topic.
**Prerequisites:** grad st; admis to School of Educ doctoral prog, Educ
701(P) and one of the following: Ad Ldsp 801, CurrIns 801, Ed Pol 801, Ed
**Last Taught:** Spring 2018, Fall 2016, Fall 2015, Fall 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Mesut Akdere</td>
<td>Associate Professor</td>
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<td>University of Minnesota-Twin Cities</td>
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<tr>
<td>Maria-Antonieta Avila</td>
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<td>Michael Bonds</td>
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<tr>
<td>Simone Conceição</td>
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<td>Candance Doer-Stevens</td>
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<td>Dave Edyburn</td>
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<td>Leanne Evans</td>
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<td>Raquel Farmer-Hinton</td>
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<tr>
<td>Elise Frattura</td>
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<tr>
<td>Tania Habeck (Mertzman)</td>
<td>Associate Professor</td>
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<td>Maria Hamlin</td>
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<tr>
<td>DeAnn Huinker</td>
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<td>Susana Muñoz</td>
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<td>Kalyiani Rai</td>
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<td>Latish Reed</td>
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<td>Karen Rigoni (Kelley)</td>
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<td>Felicia Safield</td>
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<td>Marie Sandy</td>
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<tr>
<td>Aaron Schutz</td>
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<td>Ruth Short</td>
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<td>Raji Swaminathan</td>
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<tr>
<td>Gary Williams</td>
<td>Associate Professor</td>
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</tbody>
</table>
Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL)

Specialization Overview

The primary mission of the specialization in Adult, Continuing, and Higher Education Leadership (ACHEL) is to prepare individuals for leadership positions in urban adult, continuing, and higher educational organizations. The specialization will assist students to examine changing perspectives on urban postsecondary, adult and continuing educational organizations; changing notions of urban adult, continuing, and higher education teaching and learning; and the changing roles of the students, teachers, researchers, and administrators who work and study within urban adult, continuing, and higher education organizations.

For course descriptions in this area, visit the Administrative Leadership page (http://wwwdev.uwm.edu/graduateschool/administrative-leadership).

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Cooperating Departments

- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination

Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average

Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education?

The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.
The coursework will be structured as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>AD LDSP 897</td>
<td>Seminar in the Philosophy and History of Adult, Continuing &amp; Higher Education</td>
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<tr>
<td>AD LDSP 967</td>
<td>Seminar in Urban Adult, Continuing, and Higher Education</td>
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<tr>
<td>AD LDSP 740</td>
<td>Seminar in Innovative Technologies for Learning in Education</td>
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<tr>
<td>AD LDSP 798</td>
<td>Seminar in Human Resource Development</td>
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</tr>
<tr>
<td>AD LDSP 827</td>
<td>Seminar in Adult and Organizational Learning</td>
<td>3</td>
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</table>

Additional advanced-level (800 or above) coursework from either a qualitative track or quantitative track: 6

Approved research design course: 3

Total Credits: 16

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

**Designated Specialization**

Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

**Minor**

Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student’s doctoral committee, and contributes to the student’s doctoral preliminary examination.

2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

**Adult, Continuing, and Higher Education Leadership Specialization**

Subsequent to UEDP admission, the student must submit a program of studies for the concentration in Adult, Continuing, and Higher Education Leadership, developed in conjunction with the student’s advisor and committee, to the Director of the Urban Education Doctoral Program.

The student must meet all of the program requirements of the Urban Education Doctoral Program. The specialization in Adult, Continuing, and Higher Education Leadership consists of a minimum of (30) graduate credits excluding dissertation credits.

The coursework will be structured as follows:
### Electives

Select 15-30 elective courses

<table>
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<tr>
<th>Code</th>
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<tr>
<td>AD LDSP 607</td>
<td>Coordination of Staff Development and Training Program</td>
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<tr>
<td>AD LDSP 631</td>
<td>Emerging Research in Human Resource Development</td>
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<td>AD LDSP 632</td>
<td>International Cross-Cultural Experiences in Developing Human Resources</td>
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<tr>
<td>AD LDSP 647</td>
<td>Evaluation of Adult, Continuing, and Higher Education Programs</td>
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<td>AD LDSP 667</td>
<td>Program Planning in Adult Education</td>
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<td>AD LDSP 687</td>
<td>Instructional Design and Teaching Strategies</td>
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<tr>
<td>AD LDSP 691</td>
<td>Leadership Ethics in Multicultural Organizations</td>
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<td>AD LDSP 692</td>
<td>Quality Management in Education</td>
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<td>AD LDSP 693</td>
<td>Decision Making in Multicultural Organizations</td>
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<td>AD LDSP 702</td>
<td>Leadership in Educational Organizations</td>
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<td>AD LDSP 707</td>
<td>Using Technology With Adult Learners</td>
<td>3</td>
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<tr>
<td>AD LDSP 709</td>
<td>Introduction to Higher Education Administration</td>
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<td>AD LDSP 710</td>
<td>Organizational Change and Team Leadership</td>
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<td>AD LDSP 711</td>
<td>Organization and Governance in Higher Education Administration</td>
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<td>AD LDSP 737</td>
<td>Distance Education for Adults</td>
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<td>AD LDSP 747</td>
<td>Strategic Planning and Budgeting in Adult, Continuing, and Higher Education</td>
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<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
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<td>AD LDSP 777</td>
<td>Leadership in Multicultural Organizations</td>
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<td>AD LDSP 778</td>
<td>Introduction to College Student Personnel Administration</td>
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<tr>
<td>AD LDSP 787</td>
<td>Administration of Adult Education Programs</td>
<td>3</td>
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<tr>
<td>AD LDSP 795</td>
<td>Women and Leadership in Education</td>
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<tr>
<td>AD LDSP 797</td>
<td>The Student in the Collegiate Context</td>
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</table>

### Total Credits

Total Credits: 30-45

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Students entering the Ph.D. program without a Master's degree in Adult Education are required to take the following electives. Your advisor may recommend other courses in addition to these.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

### Program Requirements

#### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

#### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

#### Residence

The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student's responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

#### Doctoral Committee Membership

The dissertation advisor is an Urban Education doctoral advisor and member of the Department of Administrative Leadership. At least two other committee members must be from the Department of Administrative Leadership.

#### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

#### Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

#### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

#### Time Limit

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.
Other Requirements
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements)

Exit Requirements
Contingent upon successful completion of program requirements, the doctoral preliminary examination, and the dissertation defense, the Chair of the Department of Administrative Leadership must give final approval for the inclusion of “Urban Education: Adult, Continuing, and Higher Education Leadership” on the student’s transcript.

Urban Education, PhD: Art Education

The program is designed to permit students to integrate their particular media and curricular interests in art and art education with theoretical knowledge and educational practices tied to the contexts of urban education and community studies. An art education specialization provides each graduate student with opportunities for growth as an artist, teacher, and researcher through the development of their own arts practices and the study of the social and cultural implications of the arts in society and among learners. The program emphasizes the exploration of media, the development of socially responsive art curricula in urban environments, and research using disciplines of inquiry in the arts and art education.

The program requires each participant to develop research skills using qualitative and quantitative methods. The PhD is a research degree, not just a professional preparation degree. Mastery of these skills is demonstrated through coursework, research projects, and the dissertation. Many graduates apply their skills in institutions of higher education; public or private school settings; federal, state, or local governmental agencies; community organizations; and the private sector.

Degree Overview
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments
• Administrative Leadership
• Curriculum and Instruction
• Educational Policy and Community Studies
• Educational Psychology
• Exceptional Education
• Information Studies (School of )

Requirements

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.
Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant's academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor's degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

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<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II (prerequisite is ED PSY 624)</td>
<td>4</td>
</tr>
<tr>
<td>CURRINS/AD LDSP 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
<td>3</td>
</tr>
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<td>Approved research design course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

Designated Specialization
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student's program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A**: A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student's doctoral committee, and contributes to the student's doctoral preliminary examination.

2. **Option B**: A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

Art Education Specialization
Students wishing to specialize in Art Education must first be admitted to the Urban Education Doctoral Program (UEDP). Applications will be reviewed by the UEDP Admissions Committee as well as the Art Education graduate faculty in the Department of Art and Design within the Peck School of the Arts.
Specialization Requirements

1. The student must meet all Urban Education Doctoral Program requirements.
2. The student must submit a program for concentration in Art Education, developed in conjunction with the student’s advisor. The program of study must be reviewed and approved by the Art Education graduate faculty and the UEDP director.
3. Students not having the equivalent of a master of arts, master of science, or master of fine arts degree in art education, or related field recognized by the Department of Art and Design may be required to take appropriate coursework as a prerequisite to the doctoral specialization in Art Education.
4. Students will be required to pass a preliminary examination by demonstrating competence in urban education, research methods, the specialization in Art Education, and their additional area of study.
5. A dissertation will be required in the specialization area of Art Education. The dissertation advisor must be an approved doctoral advisor or major professor who is a member of the specialization faculty.

For a specialization in Art Education, coursework must be completed in four areas:
1. Urban education
2. Research
3. Art education
4. An additional area of study

At least 27 credits must be completed in doctoral status at UWM, not including dissertation credits.

Program Requirements

Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student’s committee.

Residence

The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

Doctoral Committee Membership

Three graduate faculty from the Department of Art and Design, at least two of which must be from the Art Education area (including the major professor).

Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

Code | Title | Credits
--- | --- | ---
EDUC 701 | Urban Educational Issues | 9
ART ED 801 | Seminar in Urban Education and the Visual Arts | 6
EDUC 901 | Advanced Seminar in Urban Education | 9

Select at least 6 credits (700-level or above) from either a quantitative track or a qualitative track

Major Concentration Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ART ED 810</td>
<td>Curricular Designs for Art Instruction</td>
<td>6</td>
</tr>
<tr>
<td>ART ED 830</td>
<td>Teaching Art With Works of Art</td>
<td>6</td>
</tr>
</tbody>
</table>

Select 9 credits in a specific area

Select at least 6 credits in one department outside the Department of Art and Design and the School of Education that enables the research endeavor

Total Credits 55

1 Students should work with the major professor to determine the appropriate advanced level courses.
Time Limit
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

Other Requirements
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool-doctoral-requirements)

Exit Requirements
Contingent upon the satisfactory completion of program requirements, the preliminary qualifying examination, and the successful oral defense of the dissertation, the Urban Education Doctoral Committee chair will give final approval for the specialization inclusion on transcripts.

Urban Education, PhD: Curriculum and Instruction

The specialization in Curriculum and Instruction (C&I) gives students an opportunity to improve professional experiences with the students they teach, the educational contexts in which they work, and their disciplinary and content knowledge. The Curriculum and Instruction specialization combines theoretical and disciplinary content knowledge, practical experiences and scholarly activities.

The program prepares education professionals to work in such varied settings as schools, colleges and universities, school district central offices, government agencies, community organizations and private consulting. Graduates of the program are prepared for leadership roles as curriculum directors, instructional coordinators, school partnership coordinators, applied researchers, professional development coordinators and professors.

For course descriptions in this area, visit the Curriculum and Instruction page (http://wwwdev.uwm.edu/graduateschool-curriculum-instruction/#courses).

Degree Overview
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments
- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool-program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.
Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master’s Thesis
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The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant’s academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

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<td>Total Credits</td>
<td>16</td>
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</table>

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

Designated Specialization
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student’s doctoral committee, and contributes to the student’s doctoral preliminary examination.
2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.
Curriculum and Instruction Specialization
1. Students wishing to specialize in Curriculum and Instruction must first be admitted to the Urban Education Doctoral Program (UEDP).
2. Subsequent to UEDP admission, the student must submit to the Curriculum and Instruction Graduate Committee a program for concentration in Curriculum and Instruction developed in conjunction with the student’s advisor.

The student must meet all of the program requirements of the Urban Education Doctoral Program.

Specialization in Curriculum and Instruction consists of a minimum of 24 credits, 18 of which must be taken in Curriculum and Instruction. No more than 6 credits taken prior to admission to the Ph.D. program may be counted toward the specialty. The credits are to be distributed as follows:

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<tr>
<td>CURRINS 813</td>
<td>Instructional Research and Theory</td>
<td>9</td>
</tr>
<tr>
<td>CURRINS 816</td>
<td>Curriculum Designs for Urban Schools</td>
<td></td>
</tr>
<tr>
<td>CURRINS 819</td>
<td>Theory and Design of Curriculum</td>
<td></td>
</tr>
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</table>

The UEDP doctoral preliminary examination includes a section covering the student’s Curriculum and Instruction specialization.

A dissertation with a Curriculum and Instruction emphasis is required. The dissertation advisor must be an UEDP doctoral advisor and a member of the Department of Curriculum and Instruction. At least two other committee members must be from Curriculum and Instruction.

Program Requirements
Major Professor
Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

Foreign Language Requirement
There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student’s committee.

Residence
The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

Doctoral Preliminary Examination
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

Dissertation
The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

Dissertation Defense
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

Time Limit
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

Other Requirements
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements)

Exit Requirements
Contingent upon completion of program requirements, the doctoral preliminary examination, and the successful defense of the dissertation, the Chair of the Department of Curriculum and Instruction will give final approval for the inclusion of “Urban Education: Curriculum and Instruction” on the student’s transcript.

Urban Education, PhD: Educational Administration
The specialization in Educational Administration focuses on the development of educational leaders, particularly for service in urban metropolitan areas. Individuals trained in this program can provide excellence in leadership by nurturing leadership among others in the school community, creating a positive work environment for students, staff, and parents, and lastly contribute to the quality of teaching and learning in the district and within its schools. The curriculum draws from a variety of sources including current research and literature, national and state professional association standards, federal and state governmental guidelines, and the field of practice.

For course descriptions in this area, visit the Administrative Leadership page (http://wwwdev.uwm.edu/graduateschool/administrative-leadership).
Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

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Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

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All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

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Cooperating Departments

• Administrative Leadership
• Curriculum and Instruction
• Educational Policy and Community Studies
• Educational Psychology
• Exceptional Education
• Information Studies (School of Information Studies)

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination

Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average

Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
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8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education?

The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview

An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations

An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant’s academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.
Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

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<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>16</td>
<td></td>
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</tbody>
</table>

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

Designated Specialization
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student’s doctoral committee, and contributes to the student’s doctoral preliminary examination.

2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

Educational Administration Specialization
Subsequent to UEDP admission, the student must submit a program for concentration in Educational Administration, developed in conjunction with the student’s advisor and committee, to the chair of the department of Administrative Leadership.

The student must meet all of the program requirements of the Urban Education Doctoral Program. The specialization in Educational Administration consists of a minimum of 30 graduate credits excluding dissertation credits.

The credits are to be distributed as follows:

**Ph.D. Non-Certification Orientation**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 801</td>
<td>Urban Education: Doctoral Seminar</td>
<td>12</td>
</tr>
<tr>
<td>AD LDSP 832</td>
<td>Educational Politics and Policymaking</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 842</td>
<td>Program Planning and Evaluation in Education</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 862</td>
<td>School Finance</td>
<td></td>
</tr>
<tr>
<td>Electives in Administrative Leadership (700+)</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

**Ph.D. District Administrator/Superintendent Certification Orientation**

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<tbody>
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<td>Urban Education: Doctoral Seminar</td>
<td>21</td>
</tr>
<tr>
<td>AD LDSP 802</td>
<td>District Leadership for Learning</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 812</td>
<td>Educational Personnel Administration and Supervision</td>
<td></td>
</tr>
<tr>
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<td>AD LDSP 862</td>
<td>School Finance</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 882</td>
<td>Practicum in the School Superintendency</td>
<td></td>
</tr>
<tr>
<td>Electives in Administrative Leadership (700+)</td>
<td>9</td>
<td></td>
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Although a Master’s Degree and certification as a principal are prerequisites to certification as a School Superintendent in Wisconsin, doctoral students may satisfy the requirements for both licenses within
their Ph.D. Program of Study. Advisors will design such programs based on individual student need.

Any post-master’s courses taken prior to admission while enrolled as a non-degree student in the Specialist Program for School Superintendent Certification do not have to be repeated, subject to advisor and UEDC Director approval. All such credits may be applied toward the 30 credits required in the area of concentration except that in no case may a Ph.D. area of concentration contain fewer than 9 upper level graduate credits (excluding dissertation credits) taken after admission to doctoral study. Individuals who have not completed at least 6 credits of accepted graduate coursework within the 5 year immediately prior to admission must take a minimum of 15 credits.

**Program Requirements**

**Major Professor**
Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

**Foreign Language Requirement**
There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student’s committee.

**Residence**
The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

**Doctoral Committee Membership**
The dissertation advisor is an Urban Education doctoral advisor and member of the Department of Administrative Leadership. At least two other committee members must be from the Department of Administrative Leadership.

**Doctoral Preliminary Examination**
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

**Dissertation**
The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

**Other Requirements**
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements)

**Exit Requirements**
Contingent upon successful completion of program requirements, the doctoral preliminary examination, and the dissertation defense, the Chair of the Department of Administrative Leadership must give final approval for the inclusion of “Urban Education: Educational Administration” on the student's transcript.

**Urban Education, PhD: Exceptional Education**
The doctoral specialization in Exceptional Education provides a program of advanced study of special education. The program emphasizes the study the socio-cultural context, educational policy, research-based practices and systems change and reform. Students in Exceptional Education take advanced coursework in special education and choose to focus on related areas such as administration, research, teacher education, curriculum design and development, and community-based supports and partnerships. In addition, students declare a minor area of interest.

Students work with their major professor to develop an individualized program which incorporates breadth as well as depth of study.

For course descriptions in this area, visit the Exceptional Education section (http://wwwdev.uwm.edu/graduateschool/exceptional-education/#courses) of this catalog.

**Degree Overview**
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.
Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments

- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education?

The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant's academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.
Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

The Doctoral Seminars

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement

Department specialization requirements may exceed those specified here.

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All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

Designated Specialization

Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor

Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A**: A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student’s doctoral committee, and contributes to the student’s doctoral preliminary examination.

2. **Option B**: A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

Exceptional Education Specialization

Subsequent to UEDP admission, the student must submit credentials and a program for concentration in Exceptional Education developed in conjunction with the student’s advisor in the Department of Exceptional Education. Students also must prepare a statement expressing their interests within Exceptional Education for the departmental admissions procedure.

The doctoral specialization in Exceptional Education provides a program of advanced study of special education. The program emphasizes the study the socio-cultural context, educational policy, research-based practices and systems change and reform. Students in Exceptional Education take advanced coursework in special education and choose to focus on related areas such as administration, research, teacher education, curriculum design and development, and community-based supports and partnerships. In addition, students declare a minor area of interest.

Students work with their major professor to develop an individualized program which incorporates breadth as well as depth of study. Building on faculty expertise and research interests, focus areas for study may include:

• Teacher education
• Cultural diversity in education
• Early childhood intervention
• Assistive technology
• Curriculum accommodation & collaboration
• Literacy
• Transition to young adulthood
• Deaf education
• School reform and special education administration

In addition to advanced coursework, students participate in research and development projects, curriculum development, co-teaching, and other activities designed to prepare leaders for roles such as a college or university professor, curriculum leader, special education administrator, consultant, or project director.

The specialization requires a recent master’s degree in exceptional education or a related field (9 of these credits may be counted toward the specialization). If an applicant does not have this background, appropriate graduate coursework and field experiences will be outlined as a prerequisite to the doctoral specialization.

• A minimum of 12 credits in Exceptional Education (800-level or above) focusing on research and practice related to teacher education, field-based practice and supervision, community programs and support for individuals with disabilities and special education research. Core courses are selected in consultation with doctoral advisor.

• A minimum of 12 credits additional electives in an Exceptional Education focus area. Up to 9 credits of recent and relevant master’s degree coursework may be applied.

• The student must meet all of the program requirements of the Urban Education Doctoral Program, including:
  • Urban education Doctoral Seminars (9 credits)
  • Research Design and Methodology (13-16 credits)
  • Minor area of study (9 credits)
Additionally, students must complete preliminary examinations and a dissertation, original research with an emphasis in Exceptional Education.

**Program Requirements**

**Major Professor**
Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

**Foreign Language Requirement**
There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

**Residence**
The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

**Doctoral Preliminary Examination**
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

**Dissertation**
The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

**Other Requirements**
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements)

**Urban Education, PhD: Mathematics Education**

**Specialization Overview**
The specialization in Mathematics Education integrates mathematical knowledge for teaching within the broader field of urban education and prepares individuals to address critical issues across varied educational settings and contexts through research and scholarship in mathematics education.

For course descriptions in this area, visit the Curriculum and Instruction page (http://wwwdev.uwm.edu/graduateschool/curriculum-instruction) of this catalog.

**Degree Overview**
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.
The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments

- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination

Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average

Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master's Thesis
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8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education?

The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview

An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations

An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant's academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses

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The program of studies includes the following:

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Research Requirement

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Additional advanced-level (800 or above) coursework from either a qualitative track or quantitative track  
Approved research design course  
Total Credits  

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

### Designated Specialization

Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

### Minor

Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student’s doctoral committee, and contributes to the student’s doctoral preliminary examination.

2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

### Mathematics Specialization

Subsequent to admission to the Urban Education Doctoral Program (UEDP), the student must submit a Program of Study in Mathematics Education developed in conjunction with the student’s advisor for approval by the Mathematics Education Graduate Committee and the Director of the UEDP.

The student must meet all of the program requirements of the Urban Education Doctoral Program.

The specialization in Mathematics Education consists of a minimum of 9 required credits in advanced mathematics education and 23 elective credits in mathematics education, related coursework, or an optional minor. Transfer credits from prior graduate work must fulfill program requirements and be approved by the Major Professor. At least 12 credits in mathematics education must be taken after admission to the program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 720</td>
<td>Curriculum and Standards for School Mathematics</td>
<td>9</td>
</tr>
<tr>
<td>CURRINS 864</td>
<td>Integrating Mathematics Education Research into Curriculum and Instruction</td>
<td></td>
</tr>
<tr>
<td>CURRINS 865</td>
<td>Mathematics Program Design and Development</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Electives**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 625</td>
<td>Principles and Practices of Teaching Geometry and Geometric Thinking</td>
<td>23</td>
</tr>
<tr>
<td>CURRINS 626</td>
<td>Principles and Practices of Teaching Algebraic Reasoning</td>
<td></td>
</tr>
<tr>
<td>CURRINS 725</td>
<td>Improving Teaching and Learning with Classroom-Based Assessments</td>
<td></td>
</tr>
<tr>
<td>CURRINS 730</td>
<td>Mathematics in Elementary Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 731</td>
<td>Mathematics in the Secondary School</td>
<td></td>
</tr>
<tr>
<td>CURRINS 761</td>
<td>Mathematics Instructional Leadership</td>
<td></td>
</tr>
<tr>
<td>CURRINS 830</td>
<td>Seminar in Elementary School Mathematics Education</td>
<td></td>
</tr>
<tr>
<td>CURRINS 861</td>
<td>Seminar in Mathematics Urban Education</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits:** 32

The UEDP doctoral preliminary examination addresses the mathematics education specialization, urban education, and research methods.

A dissertation reporting the results of an original research study in Mathematics Education is required. Prior to beginning the research, the student must prepare an acceptable dissertation proposal, defend it at an oral hearing, and receive committee approval. The dissertation advisor (Major Professor) must be an approved UEDP doctoral advisor and a mathematics education faculty member of the Department of Curriculum and Instruction. At least two other committee members must be from Curriculum and Instruction.

### Program Requirements

**Major Professor**

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

**Foreign Language Requirement**

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student’s committee.

**Residence**

The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.
Doctoral Preliminary Examination
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

Dissertation
The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

Dissertation Defense
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

Time Limit
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

Other Requirements
This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements)

Exit Requirements
Contingent upon satisfactory completion of program requirements, the preliminary qualifying examination, dissertation proposal hearing, and the successful oral defense of the dissertation, the Urban Education Doctoral Program Director will give final approval for the designated transcript inclusion of "Urban Education: Mathematics Education."

Urban Education, PhD: Multicultural Studies

Specialization Overview
Note that while Multicultural Studies is cross-disciplinary, for the purposes of initial advising and ongoing support the departmental home for a student in this specialization is Educational Policy and Community Studies. Students in this program will be supervised jointly by the Department of Educational Policy and Community Studies and by the Urban Education Doctoral Committee, who will assign an advisor for the particular focus area the student has chosen.

For course descriptions in this area, visit the Cultural Foundations of Education section (http://uwm.edu/graduateschool/cultural-foundations-community-engagement-education/#courses) of this catalog.

Degree Overview
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments
- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.
Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant’s academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

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<tr>
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<td>ED PSY 724</td>
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<tr>
<td>CURRINS/AD LDSP 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
<td>3</td>
</tr>
<tr>
<td>Additional advanced-level (800 or above) coursework from either a qualitative track or quantitative track</td>
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<td></td>
</tr>
<tr>
<td>Approved research design course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

Designated Specialization
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A**: A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student's doctoral committee, and contributes to the student's doctoral preliminary examination.
2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

**Multicultural Specialization**

1. Students seeking admission to the doctoral program must indicate their intended area of specialization. The application will be reviewed by the Admissions Committee of the Urban Education Doctoral Program as well as the interdisciplinary graduate faculty of the Multicultural Studies Area.

2. Students must write a brief statement explaining why they feel an interdisciplinary program is more relevant to their studies than one of the other discipline-specific specializations.

3. Subsequent to admission, the student must submit a program of concentration in Multicultural Studies developed in conjunction with the student’s advisor.

4. When the student’s course of studies in Multicultural Studies is approved by the Multicultural Studies interdisciplinary faculty, the student must submit a program of study to the Office of the Doctoral Studies for review and approval by the Director.

5. Prior to admission, or within the first 30 graduate credits after admittance to the Multicultural Studies specialization, the student must complete a research project, e.g., thesis or publishable paper.

**Program Requirements**

Students must be admitted first to the Ph.D. Program in Urban Education, then specialize in Multicultural Studies. The course requirements for Multicultural Studies are outlined below.

1. Students must meet all the requirements of the Urban Education Doctoral Program.

2. Students not having a graduate degree in a field recognized by the specialization faculty may be required to take master’s level coursework as a prerequisite to admission.

**Recommended Conference Submissions/Participation**

The specialization strongly recommends all students submit and present their original work at two academic conferences during the course of their studies. Conferences may be local, regional, national, or international in scope. Additionally, students are highly encouraged to contribute to papers submitted to peer-reviewed academic journals prior to graduation.

**Other Requirements**

All students must adhere to all other general requirements of the Urban Educational Doctoral Program pertaining to such issues as residency, preliminary examinations, dissertation proposals and defense, and time limits.

**Doctoral Preliminary Examination**

The preliminary qualifying exam will include a section covering the student’s focus area as developed with an advisor or committee chair.

**Dissertation**

A dissertation with the appropriate area of emphasis is required. The dissertation committee must be composed of a minimum of four members of the graduate faculty. The dissertation advisor will be an approved doctoral advisor and a member of the School of Education. One other member must be from the School of Education, and one or two members must be from the student developed focus area.

**Exit Requirements**

Contingent upon the satisfactory completion of program requirements, including the passing of the prelim/proposal defense, and the successful oral defense of the dissertation, the Urban Education Doctoral Committee Chair will give final approval for the inclusion of “Urban Education: Multicultural Foundations” on your transcript.

**Urban Education, PhD: Social Foundations of Education**

The Ph.D. specialization in Social Foundations of Education provides students with a comprehensive understanding of the social forces that affect urban schools and communities. This program is designed for individuals who want to look deeply at the challenges facing urban areas in the 21st Century and are willing to explore creative solutions. Students in Social Foundations examine the sociological, historical, philosophical, anthropological, and political dimensions of schools and community change. Social foundations doctoral students may investigate issues and contexts grounded in the core disciplines of the social sciences.

**Degree Overview**

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum
and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

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All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments
- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

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Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

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The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant’s academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals. The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.

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</tr>
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</tr>
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All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

Designated Specialization
Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

Minor
Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student’s program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student’s doctoral committee, and contributes to the student’s doctoral preliminary examination.

2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

Social Foundations of Education Specialization
1. Students wishing to be admitted to the Urban Education Doctoral Program must indicate their intended area of specialization. Their applications will be reviewed by the Admissions committee of the Urban Education Doctoral Program as well as by the Department of Educational Policy and Community Studies. The general requirements maintained by the Graduate School at UWM will apply to these candidates;
2. Subsequent to admission, the student must submit a program for study for a specialization in Social Foundations of Education, developed in conjunction with the student’s advisor and committee;
3. If the student’s specialization in Social Foundations of Education is approved, the student must submit his or her program of study to the Office of Doctoral Studies for review and approval by the director;
4. Students who have already had their programs approved prior to their decision to seek specialization in Social Foundations of Education must submit a program for concentration in Social Foundations of Education to the Departmental Graduate Committee for approval, and if changes are made, must seek approval of the new program of studies by the Office of Doctoral Studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EDUC 701</td>
<td>Urban Educational Issues</td>
<td>9</td>
</tr>
<tr>
<td>ED POL 801</td>
<td>Urban Education: Doctoral Seminar</td>
<td></td>
</tr>
<tr>
<td>EDUC 901</td>
<td>Advanced Seminar in Urban Education</td>
<td></td>
</tr>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I (or equivalent methods course)</td>
<td>16</td>
</tr>
<tr>
<td>CURRINS 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 837</td>
<td>Emergent Methods in Qualitative Research for Social Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Research Course (Choose from Advanced Research list below)</td>
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<tr>
<td>Specialization Requirements</td>
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<tr>
<td>ED POL 805</td>
<td>Sociology of Education: Seminar</td>
<td>2</td>
</tr>
<tr>
<td>ED POL 822</td>
<td>Global Educational Studies</td>
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<tr>
<td>ED POL 840</td>
<td>Seminar in Educational Theory</td>
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</tr>
<tr>
<td>ED POL 850</td>
<td>Seminar in History of American Education</td>
<td>2</td>
</tr>
<tr>
<td>Electives in Specialization (Choose from Electives list below)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
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<td>49</td>
</tr>
</tbody>
</table>

1. Students who meet this requirement will be asked to take another research methods class in consultation with student’s academic advisor.
2. If a student has taken these courses in a master’s program, comparable 800-level coursework will be selected in conjunction with the student’s academic advisor.
Students with a Cultural Foundations of Education Master of Science degree may transfer 9 credits numbered 609 or above in which they earned an A- or better. Students with other master's degrees will be evaluated individually by the department to determine up to 9 credits that may be suitable to transfer as major elective courses. All courses selected must include research papers and be approved by the student's academic advisor.

**Advanced Research**

- Courses are 3 credits unless noted

<table>
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<tr>
<th>Code</th>
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<tr>
<td><strong>Anthropology</strong></td>
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<tr>
<td>ANTHRO 705</td>
<td>Advanced Topics in Ethnography.</td>
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</tr>
<tr>
<td>ANTHRO 768</td>
<td>Topics in Advanced Research Design in Anthropology</td>
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<tr>
<td><strong>History</strong></td>
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<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
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<tr>
<td>HIST 713</td>
<td>Historical Research Methods</td>
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<tr>
<td><strong>Philosophy</strong></td>
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<td>PHILOS 903</td>
<td>Seminar in Epistemology.</td>
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<td>PHILOS 911</td>
<td>Seminar in Logic:</td>
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<td>PHILOS 960</td>
<td>Seminar in Metaphysics:</td>
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<tr>
<td><strong>Political Science</strong></td>
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<td>POL SCI 700</td>
<td>Scope and Methods of Political Science</td>
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<td>POL SCI 701</td>
<td>Techniques of Political Science Research</td>
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<tr>
<td>POL SCI 702</td>
<td>Advanced Techniques of Political Science Research</td>
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<td><strong>Social Work (each course 2 credits)</strong></td>
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<td>SOC WRK 793</td>
<td>Evaluation of Practice</td>
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<td>SOC WRK 794</td>
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<tr>
<td><strong>Urban Studies</strong></td>
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<tr>
<td>URB STD 921</td>
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<td>URB STD 979</td>
<td>Qualitative Research Methods</td>
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<td><strong>Qualitative Research</strong></td>
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<td>CURRINS 829</td>
<td>Advanced Qualitative Research Techniques for Education Settings</td>
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<td>CURRINS 839</td>
<td>Practicum in Writing from Qualitative Research for Educational Settings</td>
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<td>ED PSY 821</td>
<td>Psychometric Theory and Practice</td>
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<td>ED PSY 822</td>
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<td>ED PSY 823</td>
<td>Structural Equation Modeling</td>
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<td>ED PSY 824</td>
<td>Advanced Experimental Design and Analysis</td>
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<td>ED PSY 825</td>
<td>Multivariate Methods</td>
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<td>ED PSY 826</td>
<td>Analysis of Cross-Classified Categorical Data</td>
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<td>ED PSY 827</td>
<td>Survey Research Methods in Education</td>
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<td>ED PSY 922</td>
<td>Seminar in Measurement and Evaluation:</td>
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<tr>
<td>ED PSY 929</td>
<td>Seminar in Statistics and Research Design</td>
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**Electives**

- All courses are 3 credits

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<th>Code</th>
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<td>ED POL 610</td>
<td>Reproduction of Minority Communities</td>
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<td>ED POL 611</td>
<td>Community Policies and Urban Minority Youths</td>
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<td>ED POL 613</td>
<td>Context and Foundations of Educational Policy</td>
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<td>History of the Education of African Americans</td>
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<td>Gender and Education</td>
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<td>Race and Public Policy in Urban America</td>
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<td>ED POL 633</td>
<td>Community Development for Low-Income and Minority Communities</td>
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<td>ED POL 636</td>
<td>Issues in African American Education</td>
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<td>ED POL 639</td>
<td>Milwaukee Black Community</td>
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<td>ED POL 640</td>
<td>The Rise and Fall of America’s Southern Civil Rights Movement</td>
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<td>The Civil Rights Movement in Northern Cities</td>
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<td>ED POL 705</td>
<td>Sociology of Education and Community Engagement</td>
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<td>ED POL 711</td>
<td>Community Change and Engagement Strategies:</td>
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<td>Community Participation and Power: Advanced Topics</td>
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<td>ED POL 713</td>
<td>Structural/Political Analysis in Community Engagement and Popular Education:</td>
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<td>ED POL 725</td>
<td>Community Organizing in Low-Income and Minority Communities</td>
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<td>ED POL 770</td>
<td>History of Urban Education Reform Policies</td>
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<td>ED POL 850</td>
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<td>ED POL 897</td>
<td>Seminar in the Philosophy and History of Adult Education</td>
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</table>

**Program Requirements**

**Major Professor**

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is
available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student’s dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

**Foreign Language Requirement**
There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student’s committee.

**Residence**
The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student’s responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

**Doctoral Preliminary Examination**
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

**Dissertation**
The candidate must present a dissertation reporting the results of an original research study appropriate to the student’s program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**
Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

**Contribution to Scholarship**
The department strongly recommends all students submit and present their original work at two academic conferences during the course of their studies. Conferences may be local, regional, national, or international in scope. Additionally, students are highly encouraged to contribute to papers submitted to peer-reviewed academic journals prior to graduation.

**Optional Minor (9-12 credits)**
Students may also choose to complete a minor outside the School of Education in an academic department, as negotiated with the student’s academic advisor. While not required, the optional minor, comprised of 9-12 credits in addition to the major requirements of the program, may provide students with another academic area of expertise (e.g., sociology, philosophy, history, etc.)

**Other Requirements**
All students must adhere to all other general requirements of the Urban Educational Doctoral Program pertaining to such issues as residency, preliminary examinations, dissertation proposals and defense, and time limits.

The preliminary qualifying exam will include a section covering the student’s Social Foundations of Education specialization.

A dissertation with the appropriate area of emphasis is required. The dissertation committee must be composed of a minimum of five members of the graduate faculty. The dissertation advisor will be an approved doctoral advisor and a member of the Department of Educational Policy and Community Studies. Two other members must be from the Department of Educational Policy and Community Studies, and one member must be from the minor area.

**Exit Requirements**
Contingent upon completion of program requirements, the preliminary qualifying examination, and the successful defense of the dissertation, the chair of the Department of Educational Policy and Community Studies must give final approval for the inclusion of Social Foundations of Education upon the student’s transcript.

**Urban Education, PhD**
The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student’s transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (http://uwm.edu/graduateschool/educational-psychology). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides
students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

Cooperating Departments

- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission.

Graduate Record Examination
Submission of scores on the General Test portion of the Graduate Record Examination is required. Scores that are more than five years old will not be considered valid.

Grade Point Average
Undergraduate GPA of 2.85 (applicants having less than 15 graduate hours must have an undergraduate GPA of 3.50); graduate GPA of 3.5; or a combined (undergraduate and graduate) GPA of 6.5.

Writing Sample
Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from one of the following options:

1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. A 5-10 page response to the following question: How would you go about determining and evaluating critical issues in urban education?

The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

Interview
An interview may be arranged with all applicants. In the case of applicants living too far away to attend a personal interview, a phone interview will be arranged.

Recommendations
An applicant must have a minimum of three appropriate persons write a recommendation and comment meaningfully and knowledgeably on the likelihood that the applicant can successfully complete an advanced scholarly program of studies for the PhD degree. It is helpful if the majority of references are written by college/university faculty. If an applicant is unable to secure academic references because of elapsed time, other references should be as current as possible. In any case, individuals preparing references should be selected who can comment with confidence on the applicant’s academic qualifications. Reference forms must be forwarded directly by the writers to the Office of Doctoral Studies. Complete information is provided in application materials available from the Office of Doctoral Studies.

Application
Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited. Applicants should submit all application materials no later than January 1 for admission the following September. Applicants must contact the Office of Doctoral Studies for application information and forms.

Credits and Courses
Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

The Doctoral Seminars
All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment. One of these seminars is taken as part of the department specialization.

Research Requirement
Department specialization requirements may exceed those specified here.
All students demonstrate knowledge in this area by writing a preliminary examination research question and successfully defending a dissertation.

**Designated Specialization**

Students indicate a specific area of specialization, by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Art Education, Exceptional Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

**Minor**

Some program specializations may require completion of a minor consisting of courses in a related discipline that supports the student's program of studies. Students should consult requirements within their specialization. If pursuing a minor, the student may choose either Option A or Option B.

1. **Option A:** A minimum of 8 credits in a single department outside the School of Education. A minor professor approves these courses, sits as a member of the student's doctoral committee, and contributes to the student's doctoral preliminary examination.

2. **Option B:** A minimum of 12 credits in two or more departments, with a minimum of 6 credits outside of the School of Education. The remaining credits may be taken within the School of Education, but must be taken outside of the department of specialization.

**Program Requirements**

**Major Professor**

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

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**Dissertation Defense**

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

**Other Requirements**

This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://wwwdev.uwm.edu/graduateschool/doctoral-requirements)
ENGINEERING AND APPLIED SCIENCE (COLLEGE OF)

UWM’s College of Engineering & Applied Science is a dynamic research institution with award-winning faculty, state-of-the-art facilities and established business connections that provide context for our work.

One of only two doctorate-granting institutions in the state of Wisconsin, UWM-Milwaukee is recognized by the Carnegie Classification of Institutions of Higher Education as one of the nation’s top research institutions. UWM’s location offers unique benefits to engineering students and faculty alike. Seven Fortune 500 companies’ international headquarters are located within easy driving distance of the university as are many leading manufacturers’ facilities.

This has real and lasting impact on the UWM engineering community. Collaborative research, corporate partnerships, and real-world work experience (http://uwm.edu/engineering/current-students/career-services/co-ops-and-internships) are an integral part of the UWM experience.

We invite you to learn more about our research as well as our undergraduate and graduate programs. You’ll see why UWM is the right choice when you are ready to build your future and change the world.

Mission

To educate students to become creative problem solvers, conduct leading-edge research with global impacts, and act as a catalyst for improved economic development and quality of life in Wisconsin.

Vision

To become a globally prominent engineering education and research institution.

Our location in the major industrial center of the state of Wisconsin offers engineering and computer science students several advantages. Professional engineers and computer scientists from the industrial community share their expertise with the College in the classroom, research laboratory, and on the College’s advisory committees. Our very successful co-op and internship programs give students work experience in their field of study before graduation. Many of the projects that students work on in the classroom are real projects brought to us by local companies. In short, Milwaukee-area companies offer our students a real-world laboratory to gain valuable insights and skills in their major field.

Accreditation

The College is accredited by the North Central Association of Colleges and Secondary Schools. In addition, the programs in civil engineering, computer engineering, electrical engineering, industrial engineering, materials engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET. The computer science program is accredited by the Computing Accreditation Commission of ABET. ABET, Inc., 415 N. Charles Street, Baltimore, MD 21201, (410) 347-7700.
Requirements for Employment, Licensing, or Professional Organizations

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

Administration

Brett Peters
Dean

Ethan Munson
Associate Dean, Academic and Administrative Affairs

David Yu
Interim Associate Dean for Research

Student Services

Todd R. Johnson
Assistant Dean of Student Services

Julianne Pickering
Co-op Program Coordinator

Tina Current
Senior Academic Advisor

Sharon Kaempfer
Senior Academic Advisor

Jennifer Klumpp
Senior Academic Advisor

Ashlie Schaffner
Academic Advisor

Graduate Programs and Research

Betty Warras
Graduate Program Specialist

Nakeesha Brown
Graduate Program Specialist

Student Organizations

In addition to the wide variety of activities that are available for all UWM students, CEAS students have the opportunity to participate in many organizations relating to their professional interests. Involvement in these organizations is recognized as a valuable component of their professional education.

Organizations

AAO - Aeronautics and Aerospace Organization

AFS - American Foundrymen's Society

ASCE - American Society of Civil Engineers

ASM/TMS - Materials Engineering Society

ASME - American Society of Mechanical Engineers

IEEE - Institute of Electrical and Electronic Engineers

IEEE-CS - Institute of Electrical and Electronic Engineers Computer Society

IIE - Institute of Industrial Engineers

ITE - Institute of Transportation Engineers

NSBE - National Society of Black Engineers

RC - Rocket Club

ROV - Remotely Operated Vehicle Team

SAE - Society of Automotive Engineers

SHPE - Society of Hispanic Professional Engineers

SME - Society of Manufacturing Engineers

SWE - Society of Women Engineers

Professional Fraternity

Triangle

Honor Societies

Pi Tau Sigma

Tau Beta Pi

Co-op and Internship Program

In today's competitive job market, it takes more than a college degree to find employment upon graduation. The Career Services Office in the College provides the link between your education and the real world. This office is dedicated to helping all CEAS students secure engineering or computer science-related work experience before graduation, because related work experience in combination with good academics are the criteria most employers use to select new hires.

The College offers students two ways to gain that experience: internships and co-ops. The principal goals of the programs are to provide career orientation to students and enhance their professional development. All internships and co-ops are paid at a rate commensurate with educational background and experience. For more information, contact the Career Services Office at (414) 229-6960 or ceascareers@uwm.edu.

Contact Information

Office of Student Services
Engineering and Mathematical Sciences Building, E386

Phone: (414) 229-4667
ceas-adv@uwm.edu
# BIOMEDICAL AND HEALTH INFORMATICS

## Programs

The PhD in Biomedical and Health Informatics (p. 650) is an interdisciplinary doctoral program offered by UWM through collaboration between several academic units at UWM and the Medical College of Wisconsin. The Program is housed in the UWM Department of Electrical Engineering and Computer Science. It is guided by a Steering Committee consisting of faculty from the academic units participating in the Program.

Biomedical and health informatics is a field that is concerned with the cognitive, information processing, and communication aspects of medicine and healthcare including the information sciences and technology to support these tasks. The field covers the application of information technology in clinical medicine, medical record keeping, medical instrumentation, and healthcare management.

## Faculty

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<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Paul Auer</td>
<td>Assistant Professor (Zilber School of Public Health)</td>
<td>PhD</td>
<td>Purdue University</td>
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<tr>
<td>Nicole Carnegie</td>
<td>Assistant Professor (Zilber School of Public Health)</td>
<td>PhD</td>
<td>University of Washington</td>
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<tr>
<td>Roshan D'Souza</td>
<td>Associate Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>University of California Berkeley</td>
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<tr>
<td>Yi Hu</td>
<td>Assistant Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>University of Texas at Dallas</td>
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<tr>
<td>Chiang-Ching Huang</td>
<td>Associate Professor (Zilber School of Public Health)</td>
<td>PhD</td>
<td>University of Michigan-Ann Arbor</td>
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<tr>
<td>Rohit Kate</td>
<td>Assistant Professor (College of Health Sciences)</td>
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<td>University of Texas at Austin</td>
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<tr>
<td>Chiu-tai Law</td>
<td>Associate Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>Purdue University</td>
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<tr>
<td>Jake Luo</td>
<td>Assistant Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>Queen's University, Belfast, U.K.</td>
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<tr>
<td>Amol Mali</td>
<td>Associate Professor (College of Engineering and Applied Science)</td>
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<td>Arizona State University</td>
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<tr>
<td>Susan McRoy</td>
<td>Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>University of Toronto</td>
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<tr>
<td>Devendra Misra</td>
<td>Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>Michigan State University</td>
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<tr>
<td>Ethan Munson</td>
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<td>University of California-Berkeley</td>
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<tr>
<td>Derek Nazareth</td>
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<td>PhD</td>
<td>Case Western Reserve University</td>
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<tr>
<td>Timothy Patrick</td>
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<td>PhD</td>
<td>University of Missouri-Columbia</td>
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<tr>
<td>Mohammad Habib Rahman</td>
<td>Assistant Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>Université de Québec, Canada</td>
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<tr>
<td>Nathan Salowitz</td>
<td>Assistant Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>Stanford University</td>
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<tr>
<td>Mathew Scanlon</td>
<td>Professor (Medical College of MD Wisconsin faculty)</td>
<td></td>
<td>Loyola Stritch School of Medicine, Chicago</td>
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</tr>
</tbody>
</table>
Mary Shimoyama  Associate Professor (Medical PhD College of Wisconsin faculty)  University of Wisconsin-Milwaukee

Atish Sinha  Professor (Lubar School of Business)  PhD  University of Pittsburgh

Ehsan S. Soofi  Professor (Lubar School of Business)  PhD  University of California-Riverside

Yongjin Sung  Assistant Professor (College of Engineering and Applied Science)  PhD  Massachusetts Institute of Technology

AkkeNeel Talsma  Associate Professor (College of Nursing)  PhD  University of Michigan-Ann Arbor

Weizhong Wang  Associate Professor (College of Engineering and Applied Science)  PhD  University of Maryland

Charles Welzig  Associate Professor (Medical MD College of Wisconsin faculty)  PhD  Humboldt University, Berlin, Germany

Min Wu  Associate Professor (College of Health Sciences)  PhD  University of North Carolina at Chapel Hill

Guangwu Xu  Associate Professor (College of Engineering and Applied Science)  PhD  State University of New York-Buffalo

Alice Fang Yan  Assistant Professor (Zilber School of Public Health)  PhD  University of Maryland

Zeyun Yu  Associate Professor (College of Engineering and Applied Science)  PhD  University of Texas-Austin

Jun Zhang  Professor (College of Engineering and Applied Science)  PhD  Rensselaer Polytechnic Institute

Tian Zhao  Associate Professor (College of Engineering and Applied Science)  PhD  Purdue University

Cheng Zheng  Assistant Professor (Zilber School of Public Health)  PhD  University of Washington

Zhi Zheng  Assistant Professor (College of Engineering and Applied Science)  PhD  Vanderbilt University

Biomedical and Health Informatics, PhD

The PhD in Biomedical and Health Informatics is an interdisciplinary doctoral program offered by UWM through collaboration between several academic units at UWM and the Medical College of Wisconsin. The Program is housed in the UWM Department of Electrical Engineering and Computer Science. It is guided by a Steering Committee consisting of faculty from the academic units participating in the Program.

Biomedical and health informatics is a field that is concerned with the cognitive, information processing, and communication aspects of medicine and healthcare including the information sciences and technology to support these tasks. The field covers the application of information technology in clinical medicine, medical record keeping, medical instrumentation, and healthcare management.

The main goal of the PhD program is to prepare graduates to perform advanced research in the discipline and to assume leadership roles in medical and healthcare industries. The degree is philosophically conceptualized as involving several disciplines in a collaborative learning process with the goal of fostering inter-professional interactions and inquiry. This degree will build upon existing graduate programs and research in the participating units. Qualified students with strong academic records in any of these programs will be considered for admission.

Other participating units:

• College of Health Sciences
• College of Nursing
• Lubar School of Business
• School of Information Studies
• Zilber School of Public Health
• The Medical College of Wisconsin
Requirements

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet the UWM Graduate School requirements as well as the following to be considered for admission to the program:

Master’s degree in biomedical and health informatics or a related area such as Computer Science, Electrical Engineering, Health Sciences, Business Administration, Nursing; or an MD degree. Exceptionally strong candidates with Bachelor’s degree in a related area will also be considered for admission.

1. At least two letters of recommendation that attest to academic and/or professional qualifications.
2. Scores from the GRE (general) or GMAT or MCAT (test taken within the last five years.)

For applicants who intend to satisfy the English proficiency requirement by submission of test scores, a score of at least 250 on the computer-based (or 600 on the paper-based) Test of English as a Foreign Language (TOEFL) is required. A score of 6.5 on the international English Language Testing Systems (IELTS) examination will be required in lieu of the TOEFL.

Requests for financial support must also be submitted below:

Co Director
Biomedical and Health Informatics Program
College of Engineering and Applied Science
University of Wisconsin-Milwaukee
Milwaukee, WI 53201

Areas of Concentration
The Ph.D. program requires a student to follow one of the following six areas of concentration. (At the time of application, each applicant should indicate a preferred area of concentration in their statement of Reasons for Graduate Study.)

Translational Bioinformatics Track
The track in Translational Bioinformatics centers on driving the flow of knowledge from "bench to bedside", bridging the gap between basic and clinical informatics research. This discipline has applications to drug development, genetics research, and the use of animal models to develop new understandings or treatments, which has implications both to basic science and to commercialization.

Knowledge Based Systems Track
The Knowledge Based Systems track is designed to train students in the development of techniques to support decision-making in medical practice (including both clinical and administrative decision-making) and customized instruction on health and medical topics for patients and health care providers. Technical areas include decision analysis, expected utility theory and cost-effectiveness analysis, computer-based decision support systems, user modeling and user interface design, intelligent tutoring systems, knowledge representation, structured reporting, and data mining and knowledge discovery.

Health Services Management & Policy Track
Health services management and policy research is broad in scope and touches on all of the standard functional business areas (e.g., management, strategy and marketing, finance/economics, management information systems, human resources management) in addition to government health policy/reimbursement/regulation, insurance and other payer mechanisms, dealing with health professionals, and illness/health in individuals and in populations. The track is designed to equip students to deal with both management information and with population health and illness information and research to understand the implications of such information and research, and to transform inferences from that information and research into practical recommendations on the national, state, and local level. By its nature, it is applied to health services settings including hospitals, skilled-nursing facilities, medical group practices, public health agencies, mental health services, managed care organizations, and integrated health networks.

Health Information Systems Track
The track in Health Information Systems is designed to explore the role of administrative and clinical information systems in health care organizations. Attention will be directed at the design, implementation, and maintenance of the broad array of computer applications used in the health care industry. An interdisciplinary approach will be taken drawing on expertise from the health professions, management information systems, and library and information science. Curricular content will range from systems analysis and design, system efficacy and management, to e-commerce.

Medical Imaging and Instrumentation Track
The track in Medical Imaging and Instrumentation is designed to train students in understanding and developing medical imaging systems and medical electronic instrumentation. The aspects emphasized in this track are medical imaging systems, image processing, computer vision, pattern recognition, medical instrumentation development and optimization, computer modeling, applications of electric and magnetic fields, and wireless communication.

Public Health Informatics Track
The Public Health Informatics track is designed to train students in the development of techniques, methods and tools to conduct public health research and to provide public health programs and tools for practical use. Graduates of this track will also be able to provide customized instruction on public health and related biomedical topics for public health workers, the public and others such as those in public health policy who will benefit from public health informatics. Technical areas include databases, tools and techniques for acquiring, processing, warehousing, and analyzing public health data. Other areas of expertise include utility theory and cost-effectiveness analysis, computer-based decision support systems, user modeling and user interface design, intelligent tutoring systems, structured reporting, and data mining.

Credits and Courses
Students enrolled in this program must follow all UWM Graduate School requirements and regulations. The minimum requirement for the Ph.D. in Biomedical and Health Informatics will be 58-63 credits beyond the bachelor's degree. Up to 24 credits from a related master's degree may be applied toward the Ph.D.

The curriculum will consist of a common set of core courses for all tracks, required and elective courses for each individual track, and the dissertation. The purpose of the core is to ensure that all graduates of the program share a basic common knowledge in biomedical and
health informatics. The purpose of the tracks is to enable the students to develop significant strengths in specific sub-areas within biomedical and health informatics. The courses identified in the curriculum are offered by UWM or MCW and, in some case, by both institutions. Following are descriptions of these components and their corresponding credit requirements.

### Core Courses
The core courses provide a comprehensive structure for the foundations needed for all students in biomedical and health informatics irrespective of their special interests. This includes a series of seminars that deal with different aspects of biomedical and health informatics. All students must take the following core courses or must have taken equivalent courses in previous study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCW 13200(A,B)</td>
<td>Medical Informatics, 6 quarter cr</td>
<td>2</td>
</tr>
<tr>
<td>HCA 700</td>
<td>Introduction to Health Care Informatics</td>
<td>3</td>
</tr>
<tr>
<td>BMS 701</td>
<td>Human Pathophysiology I</td>
<td></td>
</tr>
<tr>
<td>HCA XXX</td>
<td>Physiology and Disease Informatics</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 870</td>
<td>Medical Informatics Seminar (or at MCW)</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 749</td>
<td>Data and Information Management</td>
<td></td>
</tr>
<tr>
<td>HCA 722</td>
<td>Legal, Ethical and Social Issues in Health Care Informatics</td>
<td>1-3</td>
</tr>
<tr>
<td>MCW 12202</td>
<td>Medical Ethics (1cr)</td>
<td></td>
</tr>
<tr>
<td>MCW 10222</td>
<td>Ethics and Integrity in Science (1cr)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 13-15

### Knowledge Based Systems Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 710</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 742</td>
<td>Computational Intelligence in Health Informatics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>or COMPSCI 425</td>
<td>Introduction to Data Mining</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 743</td>
<td>Intelligent User Interfaces</td>
<td>3</td>
</tr>
<tr>
<td>or COMPSCI 747</td>
<td>Principles &amp; Practices of User Interface Design</td>
<td></td>
</tr>
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</table>

### Required Mathematics & Quantitative Methods

**Statistics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS ADM 795</td>
<td>Seminar-in-Management:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 995</td>
<td>Doctoral Seminar in Decision Sciences:</td>
<td></td>
</tr>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>IND ENG/OCCTHPY 786</td>
<td>Applied Biostatistics in Ergonomics</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 761</td>
<td>Mathematical Statistics I</td>
<td></td>
</tr>
</tbody>
</table>

**Probability**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 413</td>
<td>Statistics for Economists</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 771</td>
<td>Theory of Probability</td>
<td></td>
</tr>
</tbody>
</table>

### Track Electives

**Computing and Applications**

Select 12-15 credits with approval of advisor and steering committee: 12-15

**Quantitative Analysis**

Select up to 6 credits with approval of advisor and steering committee: 6

### Dissertation

Select 12 credits from the following (use course from program of major advisor): 12

- BUS ADM 997 | Doctoral Dissertation
- COMPSCI 998 | Doctoral Thesis
- ELECENG 998 | Doctoral Thesis
- HCA 890 | Health Care Informatics Research and Thesis
- INFOST 997 | Doctoral Dissertation
- NURS 997 | Doctoral Dissertation
- PH 990 | Research and Dissertation

Total Credits: 48-51

### Health Services Management & Policy Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 755</td>
<td>Health Care Administration and Delivery Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 757</td>
<td>Managed Care and Integrated Health Networks</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 744</td>
<td>Information Technology Strategy and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSADMGT 720</td>
<td>Strategic Management in Health Care Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSADMGT 727</td>
<td>Health Care Accounting, Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 990</td>
<td>Doctoral Seminar in Strategic Management:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 996</td>
<td>Doctoral Seminar in Organizations:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 918</td>
<td>Doctoral Seminar in Behavioral Research Methods in Management</td>
<td>3</td>
</tr>
</tbody>
</table>

### Required Mathematics & Quantitative Methods

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 714</td>
<td>Multivariate Techniques in Management Research</td>
<td></td>
</tr>
<tr>
<td>ECON 513</td>
<td>Introduction to Econometrics</td>
<td></td>
</tr>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>ECON 710</td>
<td>Applied Econometrics</td>
<td></td>
</tr>
</tbody>
</table>

### Track Electives

Select 9 credits with approval of advisor and steering committee: 9

### Dissertation

Select 12 credits from the following (use course from program of major advisor): 12

- BUS ADM 997 | Doctoral Dissertation
- COMPSCI 998 | Doctoral Thesis
- ELECENG 998 | Doctoral Thesis
- HCA 890 | Health Care Informatics Research and Thesis
### Health Information Systems Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 744</td>
<td>Information Technology Strategy and Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or COMPSCI 759</td>
<td>Data Security</td>
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</tr>
<tr>
<td>COMPSCI 720</td>
<td>Computational Models of Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>HCA 721</td>
<td>Health Information Technology Procurement</td>
<td>3</td>
</tr>
<tr>
<td>HCA 723</td>
<td>Health Care Systems Applications - Administrative and Clinical Biomedical and Healthcare Terminology and Ontology</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 760</td>
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</tbody>
</table>

#### Research Methods

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 716</td>
<td>Engineering Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 714</td>
<td>Multivariate Techniques in Management Research</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 918</td>
<td>Doctoral Seminar in Behavioral Research Methods in Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 991</td>
<td>MIS Doctoral Seminar II: (Subtitled)</td>
<td></td>
</tr>
<tr>
<td>NURS 882</td>
<td>Qualitative Methods in Health Research</td>
<td></td>
</tr>
<tr>
<td>NURS 883</td>
<td>Quantitative Methods in Health Research</td>
<td></td>
</tr>
</tbody>
</table>

#### Track Electives

Select 21 credits with approval of advisor and steering committee |

#### Dissertation

Select 12 credits from the following (use course from program of major advisor):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 997</td>
<td>Doctoral Dissertation</td>
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</tr>
<tr>
<td>COMPSCI 998</td>
<td>Doctoral Thesis</td>
<td></td>
</tr>
<tr>
<td>ELECENG 998</td>
<td>Doctoral Thesis</td>
<td></td>
</tr>
<tr>
<td>HCA 890</td>
<td>Health Care Informatics Research and Thesis</td>
<td></td>
</tr>
<tr>
<td>INFOST 998</td>
<td>Doctoral Dissertation</td>
<td></td>
</tr>
<tr>
<td>NURS 997</td>
<td>Doctoral Dissertation</td>
<td></td>
</tr>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
<td></td>
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</tbody>
</table>

Total Credits: 48

### Medical Imaging & Instrumentation Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 436</td>
<td>Introduction to Medical Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 439</td>
<td>Introduction to Biomedical Optics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/COMPSCI 712</td>
<td>Image Processing</td>
<td></td>
</tr>
</tbody>
</table>

or ELECENG 716 | Tomography: Imaging and Image Reconstruction | 3 |

or ELECENG 737 | Medical Imaging Signals and Systems                     |         |
| or ELECENG 765 | Introduction to Fourier Optics and Optical Signal Processing |         |

#### Track Electives

Select 6 credits with approval of advisor and steering committee |

#### Quantitative Analysis

Select 6 credits with approval of advisor and steering committee |

#### Dissertation

Select 12 credits from the following (use course from program of major advisor):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 997</td>
<td>Doctoral Dissertation</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 998</td>
<td>Doctoral Thesis</td>
<td></td>
</tr>
<tr>
<td>ELECENG 998</td>
<td>Doctoral Thesis</td>
<td></td>
</tr>
<tr>
<td>HCA 890</td>
<td>Health Care Informatics Research and Thesis</td>
<td></td>
</tr>
<tr>
<td>INFOST 998</td>
<td>Doctoral Dissertation</td>
<td></td>
</tr>
<tr>
<td>NURS 997</td>
<td>Doctoral Dissertation</td>
<td></td>
</tr>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
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</table>

Total Credits: 46
## Translational Bioinformatics Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO SCI 490</td>
<td>Molecular Genetics</td>
<td>2-3</td>
</tr>
<tr>
<td>BIO SCI 597</td>
<td>RNA Structure, Function, and Metabolism</td>
<td></td>
</tr>
<tr>
<td>MCW 20240</td>
<td>Translational Genetics</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

Select one of the following:

| PH XXX    | Introduction to Bioinformatics, 3 cr             | 3       |
| MCW 17201 | Bioinformatics I: Introduction to Bioinformatics, 3 cr |
| MARQ BIIN 6000 | Introduction to Bioinformatics, 3 cr    |
| MARQ BIOL 5201 | Genomics and Bioinformatics, 3 cr       |

Select one of the following:

| PH XXX    | Translational Bioinformatics, 3 cr              | 2-3     |
| MCW 20100 | Introduction to Clinical and Translational Research, 1 cr |
| and MCW 20261 | Clinical Trial Design, 1 cr                 |

Select one of the following:

| COMPSCI 425 | Introduction to Data Mining                     | 3       |
| ELECENG/COMPSCI 711 | Introduction to Machine Learning       |
| BUS ADM 741  | Web Mining and Analytics                       |         |
| MARQ ENMA 6060 | Innovation and Technology, 3cr               |

Select one of the following:

| HCA 760    | Biomedical and Healthcare Terminology and Ontology | 3       |
| BUS ADM 814 | Enterprise Knowledge & Semantic Management       |         |
| COMPSCI 810 | Knowledge Representation                        |         |
| InfoSt 714  | Metadata, 3 cr                                   |         |

Select one of the following:

| HCA 723    | Health Care Systems Applications - Administrative and Clinical | 2-3     |
| MCW 14230  | Product Development of Medical Devices, 2 cr            |         |

### Quantitative Methods

Select 9 credits from the following:

| NURS 883  | Quantitative Methods in Health Research           | 9       |
| MATH 771  | Theory of Probability                             |         |
| PH 702    | Introduction to Biostatistics                     |         |
| PH XXX    | Statistical Genetics and Genetic Epidemiology, 3cr |         |
| PH XXX    | Applied Quantitative Methods for Studying Population Health and Health Disparities, 3 cr |

Select a maximum of one of the following:

| NURS 727  | Epidemiology                                      |         |
| MCW 11200 | Introduction to Epidemiology, 3 cr                |         |
| PH 704    | Principles and Methods of Epidemiology            |         |

### Track Electives

Select a maximum of one of the following:

| PH 711    | Intermediate Biostatistics                        |         |
| MCW 04201 | Biostatistics II, 3cr                              |         |

### Dissertation

Select 12 credits from the following (use course from program of major advisor):

| BUS ADM 997 | Doctoral Dissertation                           |         |
| COMPSCI 998 | Doctoral Thesis                                  |         |
| ELECENG 998 | Doctoral Thesis                                  |         |
| HCA 890     | Health Care Informatics Research and Thesis       |         |
| INFOST 998  | Doctoral Dissertation                            |         |

### Program Requirements

#### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise and approve the program of study before registering for courses. The Biomedical and Health Informatics Steering Committee will assign the incoming student to a temporary Program Advisor at the time of admission. Prior to the completion of 12 credit (9 credits for a part-time student), the student must select a major professor who will be the student’s dissertation advisor. The student, in consultation with the major professor, develops a program of study which is submitted to the Biomedical and Health Informatics Steering Committee for approval. For subsequent changes, the student must file a revised program of study for approval.

#### Doctoral Program Committee

The Doctoral Program Committee is proposed by the Major Professor in consultation with the student by the end of the student’s first year of enrollment. The Program Committee, subject to the approval of the Biomedical and Health Informatics Steering Committee, shall consist of the Major Professor and at least four graduate faculty members, including at least one with health care and/or medical background, and one with informatics background.

#### Residence

The student must meet Graduate School residence requirements.

#### Qualifying Examination

A qualifying examination must be taken to determine whether the student is qualified to perform advanced doctoral level work in biomedical and health informatics. This examination is administered by the steering committee and must be taken prior to the completion of 21 credits of coursework in the program.

#### Doctoral Preliminary Examination

The student is also required to take a preliminary examination after all the coursework is completed and prior to the advancement of candidacy to determine the student’s preparation for independent research. Prior to the examination, the student must present a proposal for a doctoral dissertation. The preliminary examination may cover both graduate course material and the dissertation proposal. The preliminary...
examination must be successfully completed within five years of initial enrollment.

**Dissertation**
The candidate must complete a dissertation presenting independent original research that adds to the existing body of knowledge in biomedical and health informatics. It should be of such caliber that warrants publication in respected journals.

**Dissertation Defense**
The final oral examination will be an oral defense of the dissertation but may also cover the general field of the primary area of study. The examination may not be taken until all other degree requirements are satisfied. A majority of the examination committee members must approve the dissertation in order for the student to pass. The final oral examination must be taken within five years after passing the preliminary examination. Candidates who exceed this time limit may be required to retake the preliminary examination and be admitted to candidacy a second time.

**Time Limit**
All components of the Ph.D. program must be completed within 10 years of matriculation.
BIOMEDICAL ENGINEERING

Biomedical engineers apply mathematics, science, and engineering knowledge to solve healthcare-related problems that improve quality of life and reduce the cost of healthcare to society. They design assistive, diagnostic, and therapeutic tools, in collaboration with healthcare professionals. They work in research institutions, clinics, and industry.

According to the United States Bureau of Labor Statistics, employment of biomedical engineers is projected to grow 23 percent from 2014 to 2024, much faster than the average for all occupations. Growing technology and its application to medical equipment and devices, along with an aging population, will increase demand for the work of biomedical engineers.

Programs

- Biomedical Engineering, BSE (p. 657)

Biomedical Engineering Courses

BME 101 Fundamentals of Biomedical Engineering
3 cr. Undergraduate.
A system approach to physiology, cell physiology and transport, major organ systems, cardiovascular system, biomedical signal processing, biomechanics, biomedical engineering design.
Prerequisites: Math 221(C) or Math 231(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BME 302 Analysis and Modeling of Dynamic Systems
4 cr. Undergraduate.
Modeling and analysis of mechanical, electrical, electromechanical, fluid, and physiological systems; laboratory experiments.
Prerequisites: MechEng 101(P), ElecEng 234(P), and Physics 210(P).
Current Offerings: http://uwm.edu/schedule

BME 305 Introduction to Engineering Biomechanics
3 cr. Undergraduate.
Introduction to engineering biomechanics principles applied to the musculoskeletal system and human body for analysis of human movement.
Prerequisites: BioSci 203(P) & BME 302/MechEng302(P).
Current Offerings: http://uwm.edu/schedule

BME 320 Engineering of Biomedical Devices I
3 cr. Undergraduate.
Physiological and biomechatronic systems, sensors and actuators, signal processing, hearing aid and implants.
Prerequisites: jr st, BME 101(P), ElecEng 234(P), MechEng 101(C), Physics 210(P).
Current Offerings: http://uwm.edu/schedule

BME 325 Engineering of Biomedical Devices II
3 cr. Undergraduate.
Feedback and control systems, visual prostheses, heart assist and replacement devices, respiratory aids, active and passive prosthetic limbs.
Prerequisites: jr st, Bio Sci 203(P), BME 320(P).
Current Offerings: http://uwm.edu/schedule

BME 385 Introduction to Biomaterials
3 cr. Undergraduate.
Introduction to the fundamentals of biomaterials including ceramics, metals, and polymers. Important issues in the selection, design, manufacturing, and evaluation of biomaterials. Current applications, and emerging technologies.
Prerequisites: jr st, MatEng 201(P).
Course Rules: Jointly offered with & counts as repeat of MatEng 385.
Current Offerings: http://uwm.edu/schedule

BME 495 Biomedical Instrumentation Laboratory
3 cr. Undergraduate.
Characteristics of measurement systems, experiment planning, sensor and system calibration, measurement of basic quantities, first and second order systems, data acquisition and processing, experimental projects.
Prerequisites: BME 325 (P), MechEng 469 (O).
Course Rules: BME 495 and MechEng 495 are jointly offered and count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

BME 585 Advanced Biomaterials
3 cr. Undergraduate/Graduate.
Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.
Prerequisites: sr st; MatlEng 385(P) or BME 385(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

BME 595 Capstone Design Project
4 cr. Undergraduate.
Introduction to design process and ethics; Students work in teams to plan, design, and test in a simulated real-world environment; formal oral and written reports.
Prerequisites: sr st; BME 495(P).
Current Offerings: http://uwm.edu/schedule

BME 599 Senior Thesis
1-3 cr. Undergraduate.
Independent research under the direction of a faculty member; submission of a written thesis required. 3 cr total required.
Prerequisites: sr st & cons instr.
Course Rules: May be retaken to max of 3 cr.
Current Offerings: http://uwm.edu/schedule
BME 690 Topics in Biomedical Engineering:
3 cr. Undergraduate/Graduate.
Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/ chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

BME 699 Independent Study
1-3 cr. Undergraduate.
In consultation with a faculty advisor, student will develop the study plan on a topic related to biomedical engineering.
Prerequisites: jr st; cons instr & CEAS Associate Dean.
Course Rules: May be retaken to 6 cr max.
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule

BME 720 Machine Perception
3 cr. Graduate.
Fundamentals of computer vision and graphics, fundamentals of human-machine interaction, object sensing and tracking, virtual/augmented reality, automatic human behavior analysis, and biomedical applications.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

BME 733 Sensors and Systems
3 cr. Graduate.
Physical principles and working of sensors, interfacing, and sensor networks.
Prerequisites: grad st; ElecEng 305 or cons. instr.; Jointly offered with & counts as repeat of ElecEng 733 & MechEng 733.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

BME 888 Candidates for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

BME 890 Special Topics:
3 cr. Graduate.
Lectures on special topics in biomedical engineering. Variable content course. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st
Course Rules: May be repeated w/ chg in topic to 9 cr max.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

BME 990 Masters Thesis
1-9 cr. Graduate.
Masters Thesis
Prerequisites: grad st; cons instr
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

BME 999 Advanced Independent Study
1-3 cr. Graduate.
Advanced Independent Study
Prerequisites: grad st & cons instr.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

Biomedical Engineering, BSE

Biomedical engineering (BME) students at UWM will learn to translate engineering principles into clinical methods. Students will also engage in collaborative and interdisciplinary research projects with labs in the College of Engineering & Applied Science, College of Letters & Science, College of Health Sciences, School of Nursing, School of Public Health, and with local industry.

The BME undergraduate program emphasizes engineering design in preparation for employment in biomedical industries or launching startups in this fast-growing field. Freshmen and sophomores take a core curriculum that provides a foundation of engineering principles and
tools, software application, anatomy and physiology, and communication skills. Juniors take courses on sensors and actuators, biomedical signal processing and medical devices. Seniors also work on capstone design projects and the Product Realization course in multidisciplinary teams. A wide variety of elective courses allow juniors and seniors to specialize in the area of their choice.

**Current focus areas include:**

- Assistive Technology
- Biomechanics
- Medical Imaging
- Medical Instrumentation
- Rehabilitation Engineering

**Key aspects of the undergraduate program include:**

- **Design projects**, throughout the curriculum
- **Hands-on laboratories**
- **Flexibility in biomedical engineering** with depth through specialization areas
- **Industry cooperatives/internship opportunities**
- **Research opportunities in world-class labs** that make UWM one of the nation's top research universities (rated R1 by the Carnegie Classification of Institutions of Higher Education); the only one in southeastern Wisconsin

**Career Paths**

Biomedical engineers work with medical scientists, other medical researchers, and manufacturers to address a wide range of injuries and physical disabilities. Their ability to work on different activities with other professionals is enlarging the range of applications for biomedical products and services, particularly in healthcare.

- Clinical or Field Engineer
- Staff Engineer
- Manufacturing Engineer
- Researcher
- Quality Engineer
- Sales Engineer

**New Freshmen**

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or the First-Year Program. Admission directly to the major is selective.

**Transfer Students**

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or the Transfer Transition Program based on the number of transfer credits and GPA.

**Admission to the Major**

Students admitted to the First-Year Program or Transfer Transition Program (Engineering-intended or Computer Science-intended) may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

First-Year students have a maximum of three semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Transfer Transition students have a maximum of two semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

**Placement Testing**

Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in chemistry, English, and math may not be required to take placement tests. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count toward the degree program. Entering students are urged to take their placement exams when scheduled. All placement exams must be completed before beginning coursework in the subject area. Students who place into precalculus math courses may be asked to participate in an online summer bridge program.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

**Biomedical Engineering Curriculum**

The minimum number of credits required to complete the Bachelor of Science in Biomedical Engineering is 120. Students who need background preparation courses in math, English, and foreign language may need additional credits. Students must maintain an average GPA of at least 2.0 on all work attempted at the University and in all
courses offered by the College. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Students majoring in Biomedical Engineering must maintain an average GPA of at least 2.0 in all 300-level required major courses. Transferable courses will be included as appropriate. Advancement to major status is required for graduation. Programs may impose major status as a prerequisite for courses numbered 200 or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Engineering Core</td>
<td></td>
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<tr>
<td>BME 101</td>
<td>Fundamentals of Biomedical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 305</td>
<td>Electrical Circuits II</td>
<td>4</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
</tr>
<tr>
<td>MECHENG 101</td>
<td>Computational Tools for Engineers</td>
<td>2</td>
</tr>
<tr>
<td>MECHENG 301</td>
<td>Basic Engineering Thermodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

| Major Requirements                  |         |
| BIO SCI 202 | Anatomy and Physiology I             | 4       |
| BIO SCI 203 | Anatomy and Physiology II            | 4       |
| BIO SCI 465 or IND ENG 367 | Biostatistics or Introductory Statistics for Physical Sciences and Engineering Students | 3       |
| BME 302 | Analysis and Modeling of Dynamic Systems | 4       |

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<th>Code</th>
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<tr>
<td></td>
<td>Mathematics Requirement (14 to 16 credits)</td>
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<tr>
<td></td>
<td>Select one of the following Calculus sequences:</td>
<td>10-12</td>
</tr>
<tr>
<td>Sequence 1: &amp; MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 232</td>
<td>and Calculus and Analytic Geometry II</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 233</td>
<td>and Calculus and Analytic Geometry III</td>
<td></td>
</tr>
<tr>
<td>Sequence 2: &amp; MATH 221</td>
<td>Honors Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 222</td>
<td>and Honors Calculus II</td>
<td></td>
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<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
<td>4</td>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Physics Requirement</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>&amp; PHYSICS 214</td>
<td>and Lab Physics I (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>&amp; PHYSICS 215</td>
<td>and Lab Physics II (Calculus Treatment)</td>
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<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>GER Distribution Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>3</td>
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<th>Code</th>
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<tbody>
<tr>
<td></td>
<td>Social Science</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 310</td>
<td>Writing, Speaking, and Technoscience in the 21st Century</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition Requirement</td>
<td>0-6</td>
</tr>
<tr>
<td></td>
<td>The English Composition requirement is satisfied by:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Earning a satisfactory score on the English placement test; or</td>
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<tr>
<td></td>
<td>Earning a grade of C or higher in ENGLISH 102; or</td>
<td></td>
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<tr>
<td></td>
<td>Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course</td>
<td></td>
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<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td></td>
<td>Foreign Language Requirement</td>
<td>0-8</td>
</tr>
<tr>
<td></td>
<td>The foreign language requirement can be completed with one of these options:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years of a single foreign language in high school;</td>
<td></td>
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<tr>
<td></td>
<td>Two semesters of a single foreign language in college; or</td>
<td></td>
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<td></td>
<td>Demonstrate ability by examination.</td>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Placement Examinations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.</td>
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<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Technical Electives</td>
<td></td>
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<tr>
<td></td>
<td>The Biomedical Engineering program requires a total of 15 credits of technical electives, chosen from the following list¹:</td>
<td></td>
</tr>
<tr>
<td>BIOL 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 354</td>
<td>Introduction to Neuroscience I: From Neuron to Brain</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 355</td>
<td>Introduction to Neuroscience II: From Brain to Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BME 585</td>
<td>Advanced Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>BME 599</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>BME 690</td>
<td>Topics in Biomedical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BME 699</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>COMPSC 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>EAS 1</td>
<td>Engineering Co-op Work Period (Can be retaken for a total of 3 credits.)</td>
<td>1</td>
</tr>
<tr>
<td>EAS 497</td>
<td>Study Abroad:</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 361</td>
<td>Electromagnetic Fields</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.
Students wishing to major in more than one field can do so in two ways: Dual Majors

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.

2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

**Concurrent Registration at Other Institutions**

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

**Student Academic Appeals**

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

**Computer Science and Engineering Programs**

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising.
from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

Student Learning Outcomes

Upon the completion of the program, a graduate of the program will be able to:

1. Apply principles of engineering, biology, human physiology, basic science, mathematics, and statistics.
2. Solve biomedical engineering problems, including those associated with the interaction between living and non-living systems.
3. Analyze, model, design, and realize biomedical engineering devices, systems, components, or processes, and make measurements and interpret data from living systems.
4. Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
5. Demonstrate an understanding of professional and ethical responsibility.
6. Demonstrate the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
7. Demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Honors in the College of Engineering and Applied Science

Dean's Honor List
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Joint Programs with Other Campuses

Pre-engineering
Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent
coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

**Waukesha County Technical College**

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.
Civil engineering is a profession that deals with the infrastructure of society. Civil engineers design bridges, buildings, and other structures; develop and design water resources, waste treatment, and environmental management facilities; plan and design highway and transportation systems; and design foundations, earth and rock structures, and tunnels. Students completing a civil engineering program have an opportunity for professional employment with industry; utilities; consulting firms; contractors; local, state, and federal government agencies; research laboratories; and academia.

Mission Statement
The mission of the UWM undergraduate Civil Engineering Program is to educate students to become civil engineering professionals who plan, design, build, and manage the infrastructure needed for a modern urban society and the environment.

Programs
- Civil Engineering, BSE (p. 670)
- Structural Engineering, Minor (p. 675)

Civil and Environmental Engineering Courses

CIV ENG 150 Builders for Civilization and Environment
3 cr. Undergraduate.
Explores the role of civil engineering in society through the use of case studies, including water and society, bridges, building and transportation. 
Prerequisites: none.
General Education Requirements: NS
Last Taught: Fall 2008, Fall 2007, Fall 2006, Fall 2005.
Current Offerings: http://uwm.edu/schedule

CIV ENG 201 Statics
3 cr. Undergraduate.
Principles of mechanics force systems, equilibrium structures, distributed forces, centroids and friction. 
Prerequisites: Math 232(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 202 Dynamics
3 cr. Undergraduate.
Kinematics and kinetics of particles and rigid bodies with applications of Newton’s second law and the principles of work-energy and impulse momentum. 
Prerequisites: Civ Eng 201(P), Math 233(C).
Current Offerings: http://uwm.edu/schedule

CIV ENG 250 Engineering Surveying
3 cr. Undergraduate.
Horizontal and vertical distance measurement, angles and direction, traverses, errors, control and construction surveys, coordinate systems, land records, and coordinate geometry. Office and field practice. 
Prerequisites: soph st, Math 232(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 280 Computer Based Engineering Analysis
3 cr. Undergraduate.
Computer based methods for analysis of data and relationships in engineering practice. Data reliability, experimental design, statistical significance, database systems, curve fitting, interpretation of relationships. 
Prerequisites: CompSci 132(P) or one semester H.S. programming; & Math 231(P) or 226(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 303 Strength of Materials
4 cr. Undergraduate.
Stress and strain, torsion, bending of beams, shearing stress in beams, combined stresses, principal stresses, deflections of beams, statically indeterminate members and columns. Lec & lab. 
Prerequisites: Civ Eng 201(P) & Math 233(C).
Current Offerings: http://uwm.edu/schedule

CIV ENG 311 Introduction to Energy, Environment and Sustainability
3 cr. Undergraduate.
Energy system and resources, environmental system and resources, global climate change, life cycle assessment, green chemistry and materials, sustainable technologies. 
Prerequisites: jr st.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

CIV ENG 335 Soil Mechanics
3 cr. Undergraduate.
Fundamentals of soil mechanics; soil classification; seepage analysis; principle of effective stress; stress distribution; 1-D consolidation theory; shear strength; laboratory experience. 
Prerequisites: jr & admis to an Eng major or grad st; Civ Eng 303(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 360 Introduction to Structural Analysis
3 cr. Undergraduate.
Elementary structural analysis techniques; beams, trusses, statically determinate frames, influence lines; analysis of indeterminate structures by superposition and computer analysis. 
Prerequisites: Civ Eng 303(P).
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule
CIV ENG 372 Introduction to Structural Design
4 cr. Undergraduate.
Intro to design of reinforced concrete, steel, and wood structures; material properties; codes; design for flexure, shear and axial loads; connections.
Prerequisites: jr st; Civ Eng 303(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 401 Intermediate Strength of Materials
3 cr. Undergraduate/Graduate.
Area moment, conjugate beam, deflection due to shear, bending of unsymmetrical beams, curved beams, shear flow, shear center, stresses in open sections, theories of failure, plastic stress-strain relations, plastic deformation, limit analysis, energy methods, laboratory investigation.
Prerequisites: jr st; Civ Eng 303(P).
Last Taught: Fall 2001, Fall 2000, Fall 1999, Fall 1998.
Current Offerings: http://uwm.edu/schedule

CIV ENG 411 Engineering Principles of Water Resources Design
3 cr. Undergraduate/Graduate.
Principles of hydraulics; steady and non-steady flow in closed conduits and open channels; hydraulic design of structures, surge tanks; hydraulic model studies.
Prerequisites: jr st & admis to an Eng major or grad st; MechEng 320(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 412 Applied Hydrology
3 cr. Undergraduate/Graduate.
Applied hydrology with emphasis on analysis of rainfall, runoff and streamflow processes, hydrologic forecasting and simulation, urban hydrology, hydrologic design and modelling.
Prerequisites: jr st; Math 233(P) & MechEng 320(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 413 Environmental Engineering
3 cr. Undergraduate/Graduate.
Water pollution and control; hazardous substances and risk assessment; water and wastewater treatment systems; air-pollution and emission control; solid wastes; design of treatment facilities.
Prerequisites: jr st & admis to an Eng major or grad st; MechEng 320(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 431 Materials of Construction
3 cr. Undergraduate/Graduate.
Investigation covering engineering properties of metals, timber, concrete, masonry, plain and reinforced plastics, glues; thermal effects.
Prerequisites: jr st; Civ Eng 303(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

CIV ENG 456 Foundation Engineering
3 cr. Undergraduate/Graduate.
Site investigation; foundation bearing capacity and settlement; design of spread and combined footings; lateral earth pressures; retaining wall design; slope stability analysis; pile foundations.
Prerequisites: jr st; Civ Eng 335(P).
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CIV ENG 463 Introduction to Finite Elements
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; ElecEng 234(P), Civ Eng 303(P), MechEng 320(C), 311(C) or 321(C).
Course Rules: Not open to students with cr in MechEng 463, which is identical to Civ Eng 463.
Current Offerings: http://uwm.edu/schedule

CIV ENG 466 Mechanics of Composite Materials
3 cr. Undergraduate/Graduate.
Basic concepts, materials, and characteristics of composites. Micromechanics and Macromechanics of Elastic Response. Failure, design and optimization of composite structures.
Prerequisites: jr st & Civ Eng 303(P)
Course Rules: Civ Eng 466 & MechEng 466 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

CIV ENG 469 Introduction to Biomechanical Engineering
3 cr. Undergraduate/Graduate.
Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.
Prerequisites: Civ Eng 202(P) & 303 (P); or cons instr.
Course Rules: MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another.
Last Taught: Fall 2012.
Current Offerings: http://uwm.edu/schedule

CIV ENG 480 Software Applications for Civil Engineering
3 cr. Undergraduate.
General knowledge and techniques in using computer software in civil engineering design. Software packages include Autodesk Civil 3D and Revit Structure.
Prerequisites: jr st, Civ Eng 303.
Current Offerings: http://uwm.edu/schedule

CIV ENG 490 Transportation Engineering
3 cr. Undergraduate/Graduate.
Technological and common elements of all modes of transportation; their effect on performance, demand, and outputs of a transportation system. Development of new transportation systems.
Prerequisites: jr st & admis to an Eng major; Civ Eng 280(P), or grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 492 Environmental Impact Assessment
3 cr. Undergraduate/Graduate.
Study and evaluation of the impacts of large scale projects on the quality of the environment with emphasis on the assessment of physical and community impacts. Impact statement preparation.
Prerequisites: sr st.
Current Offerings: http://uwm.edu/schedule
CIV ENG 494 Principles of Civil Engineering Design
1 cr. Undergraduate.
Project identification and planning for senior design project; proposals, project management and team procedures. Technical communications. Professional engineering responsibilities. Intended for first semester seniors.
Prerequisites: sr st in Civ Eng; Civ Eng 335(C), 372(C), 411(C), 413(C), & 490(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 495 Senior Design
3 cr. Undergraduate.
Team design project involving application of fundamental civil engineering concepts. Discussion of specifications, contracts and implementation. Written and oral presentations. Intended for second semester seniors.
Prerequisites: Civ Eng 335(P), 372(P), 411(P), 413(P), 490(P), 494(P) or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 499 Ad Hoc:
1-12 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; addl prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CIV ENG 502 Experimental Stress Analysis
3 cr. Undergraduate/Graduate.
Basic stress strain relations; demonstration of experimental methods of determining stresses and strains; use of mechanical strain, electric strain, and strain gages, optical photoelastic equipment, brittle lacquers, models.
Prerequisites: jr st & Civ Eng 303(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 511 Water Supply and Sewerage
3 cr. Undergraduate/Graduate.
Resources of water supply quality and quantity requirements. Principles of hydraulic design of water supply and sewerage systems; pumping stations. Principles of sewage disposal. Problems of management involving hydrological, engineering, institutional, legal and economic aspects. Design project.
Prerequisites: jr st; Civ Eng 411(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CIV ENG 521 Water Quality Assessment
3 cr. Undergraduate/Graduate.
Laboratory techniques for detecting and measuring physical, chemical and biological characteristics of water and wastewater. Water quality requirements. Design of sampling programs.
Prerequisites: sr st; Civ Eng 411(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CIV ENG 555 Sustainable Construction Materials and Technologies
3 cr. Undergraduate/Graduate.
Sustainable construction materials and methodologies related to commercial construction, LEED/Green certifications, material selection.
Prerequisites: jr st.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

CIV ENG 560 Intermediate Structural Analysis
3 cr. Undergraduate/Graduate.
Topics in traditional analysis methods; indeterminate structures, load & load paths, moment distribution, approximate methods, elementary plate analysis.
Prerequisites: jr st; Civ Eng 360(P), 372(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 571 Design of Concrete Structures
3 cr. Undergraduate/Graduate.
Topics in reinforced concrete design; indeterminate reinforced concrete beams and frames; length effect in columns; torsion; two way floor systems; yield line theory.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CIV ENG 572 Design of Steel Structures
3 cr. Undergraduate/Graduate.
Topics in design of steel structures; tension, compression, and beam members; combined axial and bending; connections; frames; serviceability.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 573 Design of Masonry Structures
3 cr. Undergraduate/Graduate.
Topics in design of masonry structures; materials, loads, design codes, reinforced & unreinforced axial & flexural members, composite & cavity walls, shear walls, seismic requirements.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Last Taught: Fall 2016, Fall 2014, Fall 2010, Fall 2005.
Current Offerings: http://uwm.edu/schedule

CIV ENG 574 Design of Prestressed Concrete Structures
3 cr. Undergraduate/Graduate.
Design of prestressed concrete structures; methods of prestressing; loss of prestress; design for flexure, shear, torsion; camber and deflections; continuity; connections; fire rating; circular prestressing.
Prerequisites: jr st; Civ Eng 360(C), 372(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 579 Earthquake Engineering
3 cr. Undergraduate/Graduate.
Earthquake mechanics and effects, structural dynamics, seismic hazard analysis, design guidelines, design of steel and concrete buildings for earthquake loads.
Prerequisites: sr st or Civ Eng 411(P) or 491(P); or cons instr; or grad st.
Course Rules: Counts as repeat of Civ Eng 891 w/same subtitle.
Current Offerings: http://uwm.edu/schedule
CIV ENG 580 Engineering Analysis in Applied Mechanics
3 cr. Undergraduate/Graduate.
Engineering analysis of initial and boundary value problems in applied mechanics. Application of various methods to investigate a variety of engineering situations.
Prerequisites: jr st; ElecEng 234(P).
Course Rules: Not open to students with cr in MechEng 580, which is identical to Civ Eng 580.
Last Taught: Fall 1998, Fall 1996, Fall 1993.
Current Offerings: http://uwm.edu/schedule

CIV ENG 590 Urban Transportation Planning
3 cr. Undergraduate/Graduate.
Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, factors underlying the choice of mode, traffic assignment, modeling and evaluation techniques.
Prerequisites: sr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

CIV ENG 592 Traffic Control
3 cr. Undergraduate/Graduate.
Control of transportation systems with emphasis on traffic engineering principles. Data collection, capacity analysis, traffic improvements, signalization, signs and markings, channelization, intersection, speeds and safety considerations.
Prerequisites: sr st.
Current Offerings: http://uwm.edu/schedule

CIV ENG 594 Physical Planning and Municipal Engineering
3 cr. Undergraduate/Graduate.
Organization and structure of local government, zoning and planning, subdivision layout, street design, transit service, urban drainage, storm and sanitary sewer, water supply and other public works activities.
Prerequisites: sr st.
Current Offerings: http://uwm.edu/schedule

CIV ENG 596 Transportation Facilities Design
3 cr. Undergraduate/Graduate.
Physical design of transportation facilities including geometric design and terminals for highway, rail, air and water transportation. Student project work will be required.
Prerequisites: jr st; Civ Eng 490(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CIV ENG 598 Pavement Analysis and Design
3 cr. Undergraduate/Graduate.
Pavement types, design factors, traffic loading and volume, materials characterization, drainage design, flexible and rigid pavements design, stresses and deflections, overlay design, pavement rehabilitation.
Prerequisites: jr st & Civ Eng 335(P); or grad st.
Current Offerings: http://uwm.edu/schedule

CIV ENG 610 Introduction to Water and Sewage Treatment
3 cr. Undergraduate/Graduate.
Characteristics of water and sewage. Principles of physical, chemical and biological processes for water and sewage treatment. Design project.
Prerequisites: sr st; Civ Eng 413(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 614 Hazardous Waste Management
3 cr. Undergraduate/Graduate.
Hazardous waste; regulatory process; fate and transport of contaminants; treatment and disposal methods; site remediation; quantitative risk assessment, design project.
Prerequisites: jr st; Civ Eng 413(P).
Last Taught: Fall 2017, Fall 2016, Fall 2014, Spring 2013.
Current Offerings: http://uwm.edu/schedule

CIV ENG 616 Computational Hydraulics and Environmental Flows
3 cr. Undergraduate/Graduate.
Numerical analysis applied to fluid flows and transport phenomena. Applications in environmental flows, water quality models, transport of pollutant, long wave propagation, etc.
Prerequisites: jr sr, Civ Eng 411(P).
Course Rules: Counts as repeat of Civ Eng 691 w/same topic.
Last Taught: Spring 2018, Fall 2015, Fall 2011.
Current Offerings: http://uwm.edu/schedule

CIV ENG 619 Topics in Civil Engineering:
1-3 cr. Undergraduate/Graduate.
Topics vary. Study of topics in theory and practice of civil engineering. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken to a max of 6 cr.
Current Offerings: http://uwm.edu/schedule

CIV ENG 690 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to max of 6 cr toward the undergraduate degree.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CIV ENG 700 CEAS Graduate Seminar
1-3 cr. Graduate.
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.
Prerequisites: grad st
Course Rules: Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700, MatlEng 700 & MechEng 700 are jointly offered and count as repeats of one another
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
CIV ENG 701 Advanced Strength of Materials
3 cr. Graduate.
Beams of elastic foundations; advanced energy methods; thick walled cylinders; torsion of non-circular sections; approximate methods for stresses in plates, stress concentrations, contact stresses, interaction curves, elastic and inelastic buckling, introduction to elasticity. Some laboratory, matrix, and tensor applications.
Prerequisites: grad st; Civ Eng 303(P) & 401(C) or cons instr.
Last Taught: Spring 2018, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

CIV ENG 702 Elastic Stability
3 cr. Graduate.
 Sending of bars under simultaneous action of axial and lateral loads; buckling of compressed bars, rings, and tubes; lateral buckling of beams; torsion of i-beams; buckling of thin plates.
Prerequisites: grad st. Civ Eng 401(P) ElecEng 234(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 708 Fate and Transport of Micro and Nano Particles in the Environment
3 cr. Graduate.
 Fundamentals governing fate and transport of micro and nano particles, e.g. inorganic particles, bacteria, viruses and protozoan in aquatic environment and porous media including soil, sand and filtration system.
Prerequisites: grad st; Civ Eng 411(P) or 413(P) or cons instr
Last Taught: Spring 2015.
Current Offerings: http://uwm.edu/schedule

CIV ENG 710 Industrial Waste Treatment
3 cr. Graduate.
Prerequisites: grad st; Civ Eng 521(P) & 610(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

CIV ENG 716 Sediment Transport
3 cr. Graduate.
Physical properties of sediment; incipient motion, bed forms, suspended load, bed load, total load, natural river processes.
Prerequisites: grad st; Civ Eng 411(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 717 Open Channel Flow
3 cr. Graduate.
Basic equations of continuity, mechanical energy and momentum; uniform, gradually varied, and spatially varied flows; hydraulic structures; governing equations of unsteady flow and numerical solutions.
Prerequisites: grad st; Civ Eng 411(P) or equiv.
Last Taught: Fall 2016, Spring 2010, Fall 2007, Fall 2005.
Current Offerings: http://uwm.edu/schedule

CIV ENG 718 Biological Processes for Water and Wastewater Treatment
3 cr. Graduate.
Biological and engineering principles related to trickling filters, activated sludge plants, lagoons, rotating biological contactors, aerobic and anaerobic digesters, nutrient removal and bioremediation.
Prerequisites: grad st; Civ Eng 413(R) or 610(R)
Last Taught: Spring 2017, Fall 2011.
Current Offerings: http://uwm.edu/schedule

CIV ENG 719 Pollutant Dispersion Process
3 cr. Graduate.
Classical diffusion theories; longitudinal dispersion, vertical and transverse mixing in free-surface turbulent flow, application to natural channels.
Prerequisites: grad st; Civ Eng 411(P).
Last Taught: Spring 2017, Fall 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule

CIV ENG 721 Advanced Water Analysis
3 cr. Graduate.
Advanced analytical methods for evaluating sources, distribution patterns, concentrations, and biological effects of pollutants in natural waters. Tracers, nuclear techniques, organics, metals, bioassays. Lecture and laboratory.
Prerequisites: grad st; Civ Eng 521(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

CIV ENG 725 Finite Element Methods in Engineering
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule
CIV ENG 726 Mechanical Vibrations
3 cr. Graduate.
Free and forced vibrations of multiple degree of freedom systems using modern matrix methods.
Prerequisites: grad st; MechEng 475 or equiv.
Course Rules: Not open to students who have cr in MechEng 726, which is identical to Civ Eng 726.
Current Offerings: http://uwm.edu/schedule

CIV ENG 731 Properties of Concrete
3 cr. Graduate.
Advanced course in portland cement concrete; proportioning methods, theories of hardening and setting, properties, prefabricated concrete, precast concrete, construction methods, light-weight aggregates and concrete, causes of disintegration, protective treatments, specifications, cost estimates.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Fall 2015, Spring 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

CIV ENG 732 Fatigue in Engineering Materials
3 cr. Graduate.
Influence of repeated stress in engineering design, fatigue testing machines, and procedures, factors influencing fatigue properties, theories of fatigue failure.
Prerequisites: Civ Eng 401(P) or cons instr.
Last Taught: Spring 2015, Fall 2012, Fall 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

CIV ENG 735 Advanced Soil Mechanics
3 cr. Graduate.
Advanced treatment and application of theories and principles of soil mechanics; permeability and seepage; elastic theories of stress distribution; consolidation theories; shearing strength and failure criteria; plastic equilibrium.
Prerequisites: grad st; Civ Eng 456(P).
Last Taught: Fall 2016, Fall 2014, Fall 2011, Spring 2006.
Current Offerings: http://uwm.edu/schedule

CIV ENG 756 Advanced Foundation Engineering
3 cr. Graduate.
Critical study of actual engineering projects; introduction to existing design procedures and the basis for foundation recommendations.
Prerequisites: grad st; Civ Eng 456(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 761 Advanced Structural Analysis
3 cr. Graduate.
Analysis of structures utilizing matrix stiffness techniques; material and geometric nonlinearities, volume changes, extreme loadings.
Prerequisites: grad st; Civ Eng 360(P); Civ Eng 463(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 771 Advanced Concrete Design
3 cr. Graduate.
Advanced topics in design of concrete structures; structural systems & bracing, two-way slab, walls, construction phase assessment, joints & ductility, design for fire, seismic design.
Prerequisites: grad st; Civ Eng 571(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 772 Advanced Steel Design
3 cr. Graduate.
Advanced topics in design of steel structures; plate girders, moment resisting frames, stability & bracing, connections, torsion, seismic design, fatigue & fracture. Prereq: grad st; Civ Eng 572(P).
Prerequisites:
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

CIV ENG 773 Advanced Dynamics
3 cr. Graduate.
General theory of dynamic behavior from the viewpoint of Lagrangian and Hamiltonian mechanics. Application of energy principles to dynamical analysis of mechanical systems.
Prerequisites: grad st; MechEng(580) or Civ Eng 580(P); or cons instr.
Course Rules: Not open to students who have cr in MechEng 773, which is identical.
Current Offerings: http://uwm.edu/schedule

CIV ENG 774 Shock and Vibration Analysis
3 cr. Graduate.
Dynamic response of mechanical systems to complex shock and vibration conditions; application of the eigenvalue and transform methods of analysis to the solution of engineering problems.
Prerequisites: grad st; MechEng 475(P) & 580(P).
Course Rules: Not open to students who have cr in MechEng 774, which is identical.
Current Offerings: http://uwm.edu/schedule

CIV ENG 775 Analysis and Design of Bridges
3 cr. Graduate.
Bridge types; loads and AASHTO specifications; analysis and design of superstructures; substructure design; computer applications.
Prerequisites: grad st; Civ Eng 463(P); 571(P); 572(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

CIV ENG 777 Design of Multistory Buildings
3 cr. Graduate.
Topics in design of multistory building systems; planning & environmental criteria, loading, analysis, design, construction, lateral systems, foundation, cladding, building service & management.
Prerequisites: grad st; Civ Eng 463(P); 571(P); 572(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

CIV ENG 785 Dynamics of Structures
3 cr. Graduate.
Analysis and design of structures subjected to dynamic loads; effects of damping and inelastic action; multi-degree of freedom and continuous systems; numerical techniques; seismic design.
Prerequisites: grad st; Civ Eng 463(P) or cons instr.
Current Offerings: http://uwm.edu/schedule
CIV ENG 790 Transportation Systems Design
3 cr. Graduate.
Principles of systems analysis as they relate to the planning, design and operation of transportation systems. Model building, evaluation, systems management.
Prerequisites: grad st; Civ Eng 590(P).
Last Taught: Fall 2013, Fall 2011, Spring 2006, Fall 2003.
Current Offerings: http://uwm.edu/schedule

CIV ENG 792 Methods of Transportation Analysis
3 cr. Graduate.
Mathematical tools useful in analysis of transportation systems. Process of modeling and simulation, matrix techniques, network analysis, statistical analysis, etc. As related to transportation. Use of standard packaged computer programs. Class project may be utilized to develop these skills.
Prerequisites: grad st; CompSci 151(P) or equiv. Civ Eng 590(P).
Last Taught: Fall 2017, Fall 2016, Fall 2014, Spring 2009.
Current Offerings: http://uwm.edu/schedule

CIV ENG 794 Traffic Planning and Operations
3 cr. Graduate.
Planning and design of traffic systems, delay and capacity of signalized intersections, freeway controls, traffic system management and optimization, queues, traffic assignment and simulation.
Prerequisites: grad st; Civ Eng 592(C).
Current Offerings: http://uwm.edu/schedule

CIV ENG 801 Applied Elasticity
3 cr. Graduate.
Equations of elasticity in two and three dimensions; two dimensional problems in rectangular polar and curvilinear coordinates; torsion of noncircular shafts; bending of prismatic bars.
Prerequisites: grad st; Civ Eng 401(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

CIV ENG 804 Theory of Plasticity
3 cr. Graduate.
Yield conditions, stress strain relations; plastic potential, hardening theories, torsion, bending, thick walled spherical and cylindrical shells under internal pressure; plane strain of perfectly plastic material.
Prerequisites: Civ Eng 805(P).
Current Offerings: http://uwm.edu/schedule

CIV ENG 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, IndEng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Last Taught: Spring 2018, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CIV ENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Fall 2016, Fall 2015, Summer 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

CIV ENG 891 Advanced Topics in Civil Engineering: 1-3 cr. Graduate.
Topics vary. Study of advanced topics of theory and practice of structural engineering. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

CIV ENG 940 Topics in Transportation: 1-3 cr. Graduate.
Topics vary. Topics and problems of current interest in transportation; readings and review of recent literature and development of a critical analysis or paper. Subject matter may be student initiated. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered. Retakeable with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

CIV ENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

CIV ENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog Comm.
Current Offerings: http://uwm.edu/schedule

CIV ENG 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog committee.
Current Offerings: http://uwm.edu/schedule
Civil Engineering, BSE

Civil Engineering is a profession that deals with the infrastructure of society and impacts your everyday life. From the roads and bridges you use every day to the drinking water that comes out of your tap at home, civil engineers work to develop safe, efficient and sustainable ways to continually improve our infrastructure.

Concentrations

• Geotechnical engineering
• Structural engineering
• Transportation and municipal engineering
• Water resources and environmental engineering

Research

Work with faculty engaged in leading-edge research in areas such as:

• Social and environmental impacts of transportation development
• Flexible pavement design
• Fatigue and fracture mechanics
• Hydrodynamic modeling
• Environmental fluid mechanics
• Application of nanomaterials in construction

Career Paths

Civil engineers work in all levels of government and throughout the private sector.

• Structural Designer
• Construction Manager

Accreditation

The civil engineering program is accredited by the Engineering Accreditation Commission of ABET, 415 N. Charles Street, Baltimore, MD 21201, (410) 347-7700.

New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to the First-Year Program. Admission directly to the major is selective.

Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average...
on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or the Transfer Transition Program based on the number of transfer credits and GPA.

Admission to the Major
Students admitted to the First-Year Program or Transfer Transition Program (Engineering-Intended or Computer Science-Intended) may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

First-Year students have a maximum of three semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Transfer Transition students have a maximum of two semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Placement Testing
Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in chemistry, English, and math may not be required to take placement tests. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count toward the degree program. Entering students are urged to take their placement exams when scheduled. All placement exams must be completed before beginning coursework in the subject area. Students who place into precalculus math courses may be asked to participate in an online summer bridge program.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

Civil Engineering Curriculum
The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in civil engineering is 127. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 280</td>
<td>Computer Based Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>IND ENG 111</td>
<td>Introduction to Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 112</td>
<td>Engineering Drawing &amp; Computer Aided Design/Drafting</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATHENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
</tr>
<tr>
<td>MECHEENG 301</td>
<td>Basic Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHEENG 320</td>
<td>Introduction to Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 250</td>
<td>Engineering Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 335</td>
<td>Soil Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 372</td>
<td>Introduction to Structural Design</td>
<td>4</td>
</tr>
<tr>
<td>CIV ENG 411</td>
<td>Engineering Principles of Water Resources Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 413</td>
<td>Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 490</td>
<td>Transportation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 494</td>
<td>Principles of Civil Engineering Design</td>
<td>1</td>
</tr>
<tr>
<td>CIV ENG 495</td>
<td>Senior Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics Requirement
Select one of the following sequences: 10-12

Sequence 1:
MATH 231 Calculus and Analytic Geometry I & MATH 232 and Calculus and Analytic Geometry II
MATH 233 and Calculus and Analytic Geometry III

Sequence 2:
MATH 221 Honors Calculus I & MATH 222 Honors Calculus II
ELECENG 234 Analytical Methods in Engineering 4

Chemistry Requirement
One of the following sequences must be completed: 5-10

CHEM 105 General Chemistry for Engineering (suggested)
CHEM 102 & CHEM 104 General Chemistry and General Chemistry and Qualitative Analysis

Physics Requirement
PHYSICS 209 & PHYSICS 210 Physics I (Calculus Treatment) and Physics II (Calculus Treatment) 8

Other Natural Sciences
Select one of the following: 3
Any GEO SCI course 300 level or above
Any BIO SCI course 150 level or above
Any ATM SCI course 200 level or above

GER Distribution Requirement
Select 3 credits in Art
Select 3 credits in Humanities
Select 6 credits of Social Science
ENGLISH 310 Writing, Speaking, and Technoscience in the 21st Century 3

Cultural Diversity - One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.
Free Electives
Select 3 credits of free electives 3

English Composition Requirement
Select one of the following. 3
- Earn a satisfactory score on the English placement test; or
- Earn a grade of C or higher in ENGLISH 102; or
- Transfer a grade of C or better in a course (3 credits of more) equivalent to English 102 or higher level expository writing course

Foreign Language Requirement
Select one of the following: 0-6
- Complete two years of a single foreign language in high school
- Complete two semesters of a single foreign language in college
- Demonstrate ability by examination

1 MECHENG 110 and MECHENG 111 may substitute for IND ENG 111 and IND ENG 112 for students transferring from another engineering major.
2 Civil engineering majors may take CIV ENG 431 (with proper prerequisites) in place of MATLENG 201.
3 Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

Technical Electives
A minimum of 21 technical elective credits are required. At least 15 credits are required from Group A Technical Electives. Normally a minimum of 12 credits will be taken in an area of concentration.

Areas of Concentration
The Civil & Environmental Engineering Department offers numerous elective courses that allow students to work in one of four areas of concentration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIV ENG 311</td>
<td>Introduction to Energy, Environment and Sustainability</td>
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</tr>
<tr>
<td>CIV ENG 360</td>
<td>Introduction to Structural Analysis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 412</td>
<td>Applied Hydrology</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 431</td>
<td>Materials of Construction</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 456</td>
<td>Foundation Engineering</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 463</td>
<td>Introduction to Finite Elements</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 466</td>
<td>Mechanics of Composite Materials</td>
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</tr>
<tr>
<td>CIV ENG 480</td>
<td>Software Applications for Civil Engineering</td>
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<tr>
<td>CIV ENG 492</td>
<td>Environmental Impact Assessment</td>
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<tr>
<td>CIV ENG 502</td>
<td>Experimental Stress Analysis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 511</td>
<td>Water Supply and Sewerage</td>
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<tr>
<td>CIV ENG 521</td>
<td>Water Quality Assessment</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 555</td>
<td>Sustainable Construction Materials and Technologies</td>
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<tr>
<td>CIV ENG 560</td>
<td>Intermediate Structural Analysis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 571</td>
<td>Design of Concrete Structures</td>
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Technical Electives

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</tbody>
</table>
Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Dual Majors**

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

**Concurrent Registration at Other Institutions**

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

**Student Academic Appeals**

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue.
but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

Program Educational Objectives

The educational objectives of the undergraduate Civil Engineering Program are:

1. Graduates apply broad-based knowledge of mathematics, science, and engineering science for solving engineering problems and creating engineering designs in the civil engineering professional field.

   This objective implies that graduates will have a solid preparation that includes the knowledge of mathematics, sciences, statistics, engineering science disciplines, and computer applications as a foundation for later studies and lifelong learning. Through a rigorous program preparation, graduates will also be well-versed in different ways of addressing engineering problems.

Objective 1

Graduates demonstrate leadership in infrastructure design by creating solutions for complex urban problems by synthesizing and implementing knowledge from multiple disciplines.

This objective implies that graduates will have the necessary breadth and depth of technical knowledge and professional training to sustain a lengthy career as a civil engineer. It also encompasses broad knowledge of four traditional fields of civil engineering such as with an in-depth specialization knowledge in one focus area, as well as proficiency in experimentation, design, professional tools, communication skills, relationships between the engineering design and legal, environmental, and societal concerns.

Objective 3

Graduates are leaders in the workplace and in professional organizations by demonstrating effective communication skills, ethical responsibility, and social awareness.

This objective relates to the non-technical aspects of professional practice. Included in professional preparation are ethics, participation in professional organizations, interactions between professionals, and integrating non-engineering factors in designs and decisions.
Objective 4
Graduates adapt to changes in the urban and global environment by exhibiting intellectual curiosity, innovating, pursuing continuous education, and embracing diverse ideas.

This objective recognizes the speed of technological change, changing professional environments, and the need to keep the program up-to-date, both in terms of the knowledge transmitted and the means by which it is transmitted.

Honors in the College of Engineering and Applied Science

Dean's Honor List
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Joint Programs with Other Campuses

Pre-engineering
Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

Structural Engineering, Minor
Structural engineers focus on the design and physical integrity of buildings and other large structures, assuring they are safe and stable. They frequently work with architects and contractors. In addition to new construction, they often inspect and design plans for maintenance or renovation of existing structures.

The minor in structural engineering is designed especially for students in the following majors:

• Architecture
• Mechanical Engineering
• Industrial and Manufacturing Engineering
• Materials
• Geology
• Physics

This minor is not available to civil engineering majors.

Requirements
The 19-credit minor requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 335</td>
<td>Soil Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 360</td>
<td>Introduction to Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 372</td>
<td>Introduction to Structural Design</td>
<td>4</td>
</tr>
<tr>
<td>CIV ENG 571</td>
<td>Design of Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>or CIV ENG 572</td>
<td>Design of Steel Structures</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select two electives (see below) 6

Total Credits 19
### Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 401</td>
<td>Intermediate Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 431</td>
<td>Materials of Construction</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 456</td>
<td>Foundation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 463</td>
<td>Introduction to Finite Elements</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 502</td>
<td>Experimental Stress Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 560</td>
<td>Intermediate Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 571</td>
<td>Design of Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 572</td>
<td>Design of Steel Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 573</td>
<td>Design of Masonry Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 574</td>
<td>Design of Prestressed Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 579</td>
<td>Earthquake Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 301</td>
<td>Architecture Systems 1</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 510</td>
<td>Survey of Structural Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 516</td>
<td>Building Construction</td>
<td>3</td>
</tr>
</tbody>
</table>

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667, EMS Room E386.
COMPUTER ENGINEERING, BSE

The Computer Engineering major is offered through the Electrical Engineering and Computer Science departments at UWM. Computer engineering pertains to the design, implementation and maintenance of hardware and software components of computers and computer-controlled equipment.

Our program provides students with a broad and strong technical background in the field. It also helps students develop a solid grounding in computing, mathematics and engineering. Students will learn to apply these theoretical principles to design hardware, software, networks, and computerized equipment for diverse application domains.

Accreditation
The Computer Engineering program is accredited by the Computing Accreditation Commission of ABET, 415 N. Charles Street, Baltimore, MD 21201, (410) 347-7700.

New Freshmen
Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to the First-Year Program. Admission directly to the major is selective.

Transfer Students
Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or the Transfer Transition Program based on the number of transfer credits and GPA.

Admission to the Major
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1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
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4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

First-Year students have a maximum of three semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Transfer Transition students have a maximum of two semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Placement Testing
Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in chemistry, English, and math may not be required to take placement tests. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count toward the degree program. Entering students are urged to take their placement exams when scheduled. All placement exams must be completed before beginning coursework in the subject area. Students who place into precalculus math courses may be asked to participate in an online summer bridge program.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

Computer Engineering Curriculum
The minimum number of credits required to complete the Bachelor of Science in Computer Engineering is 126. Students who need background preparation courses in math, English, and foreign language may need additional credits. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Admission to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 101</td>
<td>Computational Tools for Engineers or COMPSCI 240</td>
<td>2-3</td>
</tr>
<tr>
<td></td>
<td>Introduction to Engineering Programming</td>
<td></td>
</tr>
</tbody>
</table>

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 337</td>
<td>System Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 361</td>
<td>Introduction to Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 395</td>
<td>Social, Professional, and Ethical Issues</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>---------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 305</td>
<td>Electrical Circuits II</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 310</td>
<td>Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 330</td>
<td>Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 354</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 367</td>
<td>Introduction to Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 457</td>
<td>Digital Logic Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics Requirement**

Select one of the following Calculus sequences: 1

**Sequence 1:**

MATH 231 & MATH 232 & MATH 233
Calculus and Analytic Geometry I and Calculus and Analytic Geometry II and Calculus and Analytic Geometry III

**Sequence 2:**

MATH 221 & MATH 222
Honors Calculus I and Honors Calculus II

ELECENG 234
Analytical Methods in Engineering 4

**Chemistry or Biology Requirement**

Select one of the following: 1

CHEM 105
General Chemistry for Engineering

CHEM 102
General Chemistry

BIO SCI 150
Foundations of Biological Sciences I

BIO SCI 202
Anatomy and Physiology I

**Physics Requirement**

PHYSICS 209 & PHYSICS 210
Physics I (Calculus Treatment) and Physics II (Calculus Treatment) 8

**GER Distribution Requirement**

Arts 3

Humanities 3

Social Science 3

COMMUN 105
Business and Professional Communication 3

ENGLISH 310
Writing, Speaking, and Technoscience in the 21st Century 3

Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement

**Free Electives**

Select 0-2 credits 0-2

**English Composition Requirement**

Select one of the following: 1

- Earning a satisfactory score on the English placement test; or
- Earning a grade of C or higher in ENGLISH 102; or
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course; or

**Foreign Language Requirement**

The foreign language requirement can be completed with one of these options: 0-8

- Two years of a single foreign language in high school

Two semesters of a single foreign language in college

Demonstrate ability by examination

1 Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

**Technical Electives - 16 Credits Required**

Group A Technical Electives Select 9 to 12 credits from the following list:

All Computer Science and Electrical Engineering courses 300-699 that are not explicitly listed in another category.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>9-12</td>
</tr>
<tr>
<td>COMPSCI 417</td>
<td>Introduction to the Theory of Computation</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 422</td>
<td>Introduction to Artificial Intelligence</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 423</td>
<td>Introduction to Natural Language Processing</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 425</td>
<td>Introduction to Data Mining</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 431</td>
<td>Programming Languages Concepts</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 444</td>
<td>Introduction to Text Retrieval and Its Applications in Biomedicine</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 511</td>
<td>Symbolic Logic</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 530</td>
<td>Computer Networks Laboratory</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 536</td>
<td>Software Engineering</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 552</td>
<td>Advanced Object-Oriented Programming</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 654</td>
<td>Introduction to Compilers</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 655</td>
<td>Compiler Implementation Laboratory</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 657</td>
<td>Topics in Computer Science:</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 699</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>ELECENG 335</td>
<td>Electronics II</td>
<td></td>
</tr>
<tr>
<td>ELECENG 361</td>
<td>Electromagnetic Fields</td>
<td></td>
</tr>
<tr>
<td>ELECENG 362</td>
<td>Electromechanical Energy Conversion</td>
<td></td>
</tr>
<tr>
<td>ELECENG 410</td>
<td>Digital Signal Processing</td>
<td></td>
</tr>
<tr>
<td>ELECENG 420</td>
<td>Random Signals and Systems</td>
<td></td>
</tr>
<tr>
<td>ELECENG 421</td>
<td>Communication Systems</td>
<td></td>
</tr>
<tr>
<td>ELECENG 436</td>
<td>Introduction to Medical Instrumentation</td>
<td></td>
</tr>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
<td></td>
</tr>
<tr>
<td>ELECENG 451</td>
<td>Introduction to VLSI Design</td>
<td></td>
</tr>
<tr>
<td>ELECENG 461</td>
<td>Microwave Engineering</td>
<td></td>
</tr>
<tr>
<td>ELECENG 462</td>
<td>Antenna Theory</td>
<td></td>
</tr>
<tr>
<td>ELECENG 464</td>
<td>Fundamentals of Photonics</td>
<td></td>
</tr>
<tr>
<td>ELECENG 465</td>
<td>Broadband Optical Networks</td>
<td></td>
</tr>
</tbody>
</table>
**Group C Technical Electives**

Select 0-3 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 595</td>
<td>Capstone Project</td>
<td>4</td>
</tr>
<tr>
<td>or ELECENG 595</td>
<td>Capstone Design Project</td>
<td></td>
</tr>
</tbody>
</table>

**Group B Technical Electives**

- COMPSCI 595: Capstone Project
- ELECENG 595: Capstone Design Project

**Group C Technical Electives (continued)**

Select 0-3 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 292</td>
<td>Introduction to Entrepreneurship and Small Business Formation</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 581</td>
<td>Web Languages and Standards</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 658</td>
<td>Topics in Applied Computing:</td>
<td></td>
</tr>
<tr>
<td>EAS 1</td>
<td>Engineering Co-op Work Period 1</td>
<td></td>
</tr>
<tr>
<td>EAS 497</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>ELECENG 471</td>
<td>Electric Power Systems</td>
<td></td>
</tr>
<tr>
<td>ELECENG 472</td>
<td>Introduction to Wind Energy</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
<td></td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td></td>
</tr>
<tr>
<td>MATLENG 481</td>
<td>Electronic Materials</td>
<td></td>
</tr>
<tr>
<td>MECHENG 301</td>
<td>Basic Engineering Thermodynamics</td>
<td></td>
</tr>
<tr>
<td>MECHENG 321</td>
<td>Basic Heat Transfer</td>
<td></td>
</tr>
<tr>
<td>MECHENG 542</td>
<td>Introduction to Technology</td>
<td></td>
</tr>
<tr>
<td>MECHENG 543</td>
<td>Introduction to Technology Management and Innovation</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum Requirements**

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Dual Majors**

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

**Concurrent Registration at Other Institutions**

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

**Student Academic Appeals**

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.
The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

**Computer Science and Engineering Programs**

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a professional advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

**Program Educational Objectives**

The educational objectives of the undergraduate Computer Engineering Program are:

1. Graduates will have successful careers in computer engineering fields or will be able to successfully pursue advanced degrees.
2. Graduates will provide solutions to challenging problems in their profession by applying computer engineering theory and principles.
3. Graduates will communicate effectively, work collaboratively, and exhibit high levels of professionalism and ethical responsibility.
4. Graduates will engage in lifelong learning and professional development to adapt to rapidly changing work environments.

**Honors in the College of Engineering and Applied Science**

**Dean’s Honor List**

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Joint Programs with Other Campuses**

**Pre-engineering**

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.
Dual Degree Programs
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges
Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.
COMPUTER SCIENCE

The discipline of computer science pertains to the study and design of computer systems, hardware and software, computing techniques, and underlying theory. Our program provides a student with a broad technical background in computer science. It is a flexible program providing breadth and permitting a student to develop strengths in selected areas within computer science, as well as in related areas such as electrical engineering, mathematics, or business, depending on a student's interests. Technical electives available in the Computer Science major span courses in a broad spectrum of areas such as Networks, Computer Security, Artificial Intelligence, and Database Systems.

Mission Statement

The Department of Electrical Engineering and Computer Science is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

Programs

- Applied Computing, BS (p. 692)
- Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science) (p. 694)
- Computer Science, BS (p. 696)
- Computer Science, Minor (p. 700)
- Computer Science, MS (p. 700)
- Web Development, Undergraduate Certificate (p. 702)

Applied Computing Courses

APC 300 Programming 1
3 cr. Undergraduate.
Introduction to history of computing, fundamental computer concepts and structured programming techniques.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

APC 310 Math for Computer Science
3 cr. Undergraduate.
Important foundational topics in computer science.
Prerequisites: none.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

APC 320 Introduction to Business
3 cr. Undergraduate.
Introduction to the major functional areas of business including the roles of accounting, finance, human resources, marketing, information systems, and operations in the organization.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

APC 330 Technical and Professional Communication
3 cr. Undergraduate.
Technical and professional communication skills and techniques. Practice in creating effective memos and reports, delivering technical material, delivering presentations, and developing communication within teams.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

APC 340 Legal and Ethical Responsibilities of the IT Professional
3 cr. Undergraduate.
Legal, regulatory, ethical and compliance issues associated with developing software and using information systems in an organization.
Prerequisites: admis to BS-APC prog; APC 320(P).
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

APC 350 Programming 2
3 cr. Undergraduate.
Continuation of fundamental computer concepts and Programming.
Prerequisites: APC 300(P); 310(P).
Current Offerings: http://uwm.edu/schedule

APC 360 Database Management 1
3 cr. Undergraduate.
Design and implementation of relational database management systems to support computer-based information systems.
Prerequisites: admis to BS-APC prog; APC 300(P); 310(P).
Current Offerings: http://uwm.edu/schedule

APC 370 System Analysis and Design
3 cr. Undergraduate.
The five phases of Systems Development Life Cycle: scope definition, problem analysis, requirements analysis, logical design and decision analysis.
Prerequisites: admis to BS-APC prog; APC 300(P); 320(P); 330(P).
Current Offerings: http://uwm.edu/schedule

APC 380 Project Management Techniques
3 cr. Undergraduate.
An introduction to project management techniques including project selection and life cycle, stakeholder/scopequality/procurement management, budget control, scheduling, risk identification.
Prerequisites: admis to BS-APC prog; APC 370(P).
Current Offerings: http://uwm.edu/schedule

APC 390 Object Oriented Programming
3 cr. Undergraduate.
An introduction to Object-Oriented Programming techniques using the Java programming language.
Prerequisites: APC 350(P)
Current Offerings: http://uwm.edu/schedule

APC 400 Applied Communication Networks
3 cr. Undergraduate.
Fundamental concepts in the design, configuration, and problem solving of computer networks.
Prerequisites: admis to BS-APC prog; APC 350(P).
Current Offerings: http://uwm.edu/schedule
APC 410 Database Management 2
3 cr. Undergraduate.
Architecture and use-cases of non-relational (NoSQL) based on four types of databases including document, Graph, Key-value, and wide column store.
Prerequisites: admis to BS-APC prog; APC 360(P).
Current Offerings: http://uwm.edu/schedule

APC 420 Computer Security 1
3 cr. Undergraduate.
Security and risk management, security engineering, identity and access management, and security operations.
Prerequisites: APC 350(P).
Current Offerings: http://uwm.edu/schedule

APC 430 Applied Data Structures and Algorithms
3 cr. Undergraduate.
Concepts and the application of data structures and algorithms.
Prerequisites: APC 390(P).
Current Offerings: http://uwm.edu/schedule

APC 440 Web Development
3 cr. Undergraduate.
Creating advanced and interactive websites web sites using technologies like HTML 5, CSS, JavaScript, Bootstrap, XML, web services, and database integration within the ASP.Net platform.
Prerequisites: APC 360(P); 400(P).
Current Offerings: http://uwm.edu/schedule

APC 450 Operating Systems Theory and Practice
3 cr. Undergraduate.
An introduction to important operating systems concepts such as processes, threads, scheduling, concurrency control and memory management.
Prerequisites: admis to BS-APC prog; APC 430(C).
Current Offerings: http://uwm.edu/schedule

APC 460 Software Engineering
3 cr. Undergraduate.
Basic software development methodologies and tools, including the waterfall, iterative, and agile approaches.
Prerequisites: APC 370(P); 390(P).
Current Offerings: http://uwm.edu/schedule

APC 470 IS Strategy and Management
3 cr. Undergraduate.
Organizational/IS strategy using a capability maturity model for topics such as budgeting, acquisition, service/change/personnel management.
Prerequisites: admis to BS-APC prog; APC 380(P); 460(C).
Current Offerings: http://uwm.edu/schedule

APC 480 Computer Security 2
3 cr. Undergraduate.
Communication and network security, security assessment and testing, software development security, and asset security.
Prerequisites: APC 360(P); 400(P); 420(P); 450(P).
Current Offerings: http://uwm.edu/schedule

APC 490 Capstone Project Preparation
1 cr. Undergraduate.
Student capstone project and creation of initial plan with specific deliverables identified.
Prerequisites: admis to BS-APC prog; APC 460(C).
Current Offerings: http://uwm.edu/schedule

APC 495 Capstone Project
3 cr. Undergraduate.
Development, management and delivery of an applied computer science project for a client, including communication of project requirements and status to a non-technical audience.
Prerequisites: admis to BS-APC prog; APC 490(P).
Current Offerings: http://uwm.edu/schedule

Computer Science Courses

COMPSCI 101 Introduction to PC Application Software
3 cr. Undergraduate.
Introduction to software applications of the personal computer, including word processing, desktop publishing, spreadsheets, and databases.
Prerequisites: none.
Course Rules: Not open to CompSci students for cr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMPSCI 111 Introduction to Unix
1 cr. Undergraduate.
Introduction to basic user skills for Unix operating systems. File system structure and access control. Basic user commands. Text editing. Internet utilities.
Prerequisites: none.
Last Taught: Fall 2010, Fall 2009, Spring 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

COMPSCI 112 Introduction to the Internet and the World Wide Web
3 cr. Undergraduate.
Survey of the technologies that enable common Internet applications and their security/privacy issues. Topics include HTTP, TCP/IP, DNS, email protocols, search engines, encryption, digital signatures and malware.
Prerequisites: none.
Last Taught: Fall 2012, Fall 2011, Fall 2009, Spring 2009.
Current Offerings: http://uwm.edu/schedule

COMPSCI 113 Introduction to Web Document Production
3 cr. Undergraduate.
An introduction to the computer languages used in World Wide Web documents. Design principles; techniques for form processing and inclusion of multimedia content.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

COMPSCI 132 Introduction to Computers and Programming
3 cr. Undergraduate.
How computers work; communicating with computers; introductory programming in a high-level language; elementary problem solving.
Prerequisites: Level 30 on Math Placement Test or Math 105(C).
Current Offerings: http://uwm.edu/schedule
COMPSCI 140 Introduction to the Computer Science Laboratories
1 cr. Undergraduate.
Survey of the programming tools available in the Computer Science laboratory environment.
Prerequisites: CompSci 201(C)
Current Offerings: http://uwm.edu/schedule

COMPSCI 150 Survey of Computer Science
3 cr. Undergraduate.
A survey of computer science. Topics include data storage and manipulation, operating systems and networks, algorithms and data structures, programming languages, artificial intelligence, and computability.
Prerequisites: none.
Course Rules: Counts as repeat of CompSci 299 with similar topic.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

COMPSCI 151 Introduction to Scientific Programming in Fortran
3 cr. Undergraduate.
Design and implementation of computer programs in fortran; stress will be placed on applications to different fields of science and engineering.
Prerequisites: Math 231(C) or 226(C).
Current Offerings: http://uwm.edu/schedule

COMPSCI 160 Introduction to Computer Game Design and Programming
3 cr. Undergraduate.
An overview of computer game history; design concepts and considerations; implementation using a modern software development platform, such as GameMaker.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

COMPSCI 202 Introductory Programming Using Python
3 cr. Undergraduate.
Programming in Python. Basic control structures including recursion. Basic and library data types. Problem solving with objects. Writing classes. Basic software development skills.
Prerequisites: Counts as repeat of CompSci 290 with similar topic. Preq: Level 30 on Math Placement Test, or a grade of C or better in Math 105 or 108.
Current Offerings: http://uwm.edu/schedule

COMPSCI 240 Introduction to Engineering Programming
3 cr. Undergraduate.
Problem solving with structured programming techniques using an engineering oriented programming language, such as MATLAB, including control structures, functions, arrays and matrices.
Prerequisites: Math Placement Level 40 or Math 116(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 241 C Programming for Embedded Systems
3 cr. Undergraduate.
Problem solving with structured programming techniques, using the C programming language; Topics include using Arrays & Pointers; Memory Management; Unions, Structures; Files & Low Level IO; Process’s & Inter-process Communication.
Prerequisites: C or better in CompSci 240(P)
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

COMPSCI 250 Introductory Computer Programming
3 cr. Undergraduate.
Problem solving with structured programming techniques using an object-oriented programming language, including control structures, functions, arrays, vectors, and pre-defined objects.
Prerequisites: Math Placement level 30.
Current Offerings: http://uwm.edu/schedule

COMPSCI 251 Intermediate Computer Programming
3 cr. Undergraduate.
Problem solving with objects. Writing classes. Use of standard data structures. Basic software development skills including text analysis tools, debugging, and configuration management.
Prerequisites: Math Placement Level 40 or Math 116(P) or Math 211(P); C or better in CompSci 250(201)(P).
Current Offerings: http://uwm.edu/schedule

COMPSCI 290 Introductory Topics in Computer Science:
1-3 cr. Undergraduate.
Lectures on new introductory material in computer science. Variable-content course.
Prerequisites: specific courses dependent on topic.
Course Rules: May be retaken to max of 6 cr w/chg in topic.
Current Offerings: http://uwm.edu/schedule

COMPSCI 315 Introduction to Computer Organization and Assembly Language Programming
3 cr. Undergraduate.
Introduction to number systems, arithmetic and Boolean operations. Digital computer organization. A specific computer system, assembly and machine language programming.
Prerequisites: Math Placement Level 40 or Math 116(P) or Math 211(P); CompSci 250(201)(P).
Current Offerings: http://uwm.edu/schedule

COMPSCI 317 Discrete Information Structures
3 cr. Undergraduate.
Introductory discussion of logic, proof techniques, sets, functions, relations, combinatorics, probability, and graphs.
Prerequisites: Math Placement Level 40; grade of C or better in CompSci 250(P).
Current Offerings: http://uwm.edu/schedule
COMPSCI 318 Topics in Discrete Mathematics
3 cr. Undergraduate.
Number theory topics related to cryptography; discrete structures including graphs, partial orders, Latin squares and block designs; advanced counting techniques.
Prerequisites: a grade of C or better in CompSci 317(P) or Math 341(P).
Course Rules: Jointly offered with & count as repeat of Math 318.
Current Offerings: http://uwm.edu/schedule

COMPSCI 337 System Programming
3 cr. Undergraduate.
Introduction to the application programmer interface for a modern operating system. Overview of mechanisms for object oriented programming and memory management
Prerequisites: C or better in CompSci 251(P)
Current Offerings: http://uwm.edu/schedule

COMPSCI 351 Data Structures and Algorithms
3 cr. Undergraduate.
Programming in a structured, high-level, object-oriented language. Implementation of data structures and algorithms and their application.
Prerequisites: Math Placement Level 40 or Math 116(P) or 211(P); C or better in CompSci 251(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 361 Introduction to Software Engineering
3 cr. Undergraduate.
Introduction to core topics of software engineering including requirements analysis, object-oriented design, testing, and project management. Overview of ethical and social issues in computing.
Prerequisites: C or better in CompSci 351(P), satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 395 Social, Professional, and Ethical Issues
3 cr. Undergraduate.
The social, professional and ethical issues that arise in the context of professional computing.
Prerequisites: soph st or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 417 Introduction to the Theory of Computation
3 cr. Undergraduate/Graduate.
Introduction to formal languages, grammars and automata. Finite state automata, pushdown automatata, turing machines. Regular, context-free recursive and recursively enumerable languages. Decidability.
Prerequisites: jr st; grade of C or better in CompSci 317(P) or grade of C or better in Math 341(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 422 Introduction to Artificial Intelligence
3 cr. Undergraduate/Graduate.
Introduction to core techniques and broad survey of AI. Topics include: Lisp, heuristic search, knowledge representation, planning, vision, learning.
Prerequisites: jr st; C or better in CompSci 317(217)(P); & CompSci351(252)(P).
Current Offerings: http://uwm.edu/schedule

COMPSCI 423 Introduction to Natural Language Processing
3 cr. Undergraduate/Graduate.
Introduction to natural language processing programs and an overview of the field. Topics include syntactic frameworks, parsing, semantics, interpretation, and applications.
Prerequisites: jr st; C or better in CompSci 351(P).
Last Taught: Fall 2017, Fall 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

COMPSCI 425 Introduction to Data Mining
3 cr. Undergraduate/Graduate.
Algorithms for uncovering useful information from data. Topics include data exploration, association rules, clustering, supervised learning, and mining structured data (e.g., sequences or graphs)
Prerequisites: jr st; CompSci 251(P), Math 221(P) or Math 232(P)
Course Rules: Counts as repeat of CompSci 657 with same topic.
Current Offerings: http://uwm.edu/schedule

COMPSCI 431 Programming Languages Concepts
3 cr. Undergraduate/Graduate.
Examination of abstract features of languages. Study of syntactic and semantic models; design and programming in procedural, object-oriented, functional and logical languages. Implementation methods.
Prerequisites: jr st; grade of C or better in CompSci 351(252)(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 444 Introduction to Text Retrieval and Its Applications in Biomedicine
3 cr. Undergraduate/Graduate.
Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.
Prerequisites: jr st; CompSci 351(P) or HCA 442(P).
Course Rules: Jointly offered with & counts as repeat of HCA 444, CompSci 744, & HCA 744.
Last Taught: Spring 2015, Spring 2013, Fall 2010, Fall 2007.
Current Offerings: http://uwm.edu/schedule

COMPSCI 458 Computer Architecture
3 cr. Undergraduate/Graduate.
Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures.
Prerequisites: jr st; ElecEng 354(P), C or better in CompSci 315(P) or ElecEng 367(P).
Course Rules: Jointly offered with & counts as repeat of ElecEng 458.
Current Offerings: http://uwm.edu/schedule
**COMPSCI 459 Fundamentals of Computer Graphics**  
3 cr. Undergraduate/Graduate.  
Scan-line algorithms, object representation, homogeneous coordinates, geometric transformations, viewing curves, illumination models, interactive input methods, texture mapping.  
**Prerequisites:** jr st; Math 232(P); CompSci 251(P).  
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 469 Introduction to Computer Security**  
3 cr. Undergraduate/Graduate.  
Privacy and authenticity of data and programs, communication, operating systems, network and database security, computer viruses, cryptography, private and public key cryptosystems, protocols.  
**Prerequisites:** jr st; C or better in both CompSci 317(217)(P) & 251(P).  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 481 Server-side Internet Programming**  
3 cr. Undergraduate/Graduate.  
Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases.  
**Prerequisites:** jr st; one of CompSci 113 (P), InfoSt 320 (P), or Art 324 (P); C or better in CompSci 202(P) or CompSt 702(P)  
**Last Taught:** Spring 2018, Fall 2016, Fall 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 482 Rich Internet Applications**  
3 cr. Undergraduate/Graduate.  
**Prerequisites:** jr st; CompSci 361(P) or 481(P).  
**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 511 Symbolic Logic**  
3 cr. Undergraduate/Graduate.  
First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.  
**Prerequisites:** jr st & either Philos 212(P) or 6 cr Math at the 300-level or above, or grad st.  
**Course Rules:** CompSci 511, Math 511, & Philos 511 are jointly offered & count as repeat of each other.  
**Last Taught:** Spring 2017, Fall 2015, Fall 1989, Fall 1988.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 520 Computer Networks**  
3 cr. Undergraduate/Graduate.  
Layered network architecture, protocols, data transmission, local area networks, multiplexing and switching, routing flow and congestion control, internetworking, wireless networking, network reliability and security.  
**Prerequisites:** jr st; CompSci 315(215)(P) or CompSci 458(P) or ElecEng 367(P).  
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 522 Computer Game Design**  
3 cr. Undergraduate/Graduate.  
Design of rules, environments, rewards, and punishments, Game metrics, including artificial intelligence in games, Puzzle generation, Automatic design, Humanness test, Influence maps, Diversity, Unpredictability.  
**Prerequisites:** jr st; grade of C or better in CompSci 317(P).  
**Course Rules:** Counts as repeat of CompSci 657 with similar topic.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 530 Computer Networks Laboratory**  
3 cr. Undergraduate/Graduate.  
**Prerequisites:** jr st; CompSci 520(P).  
**Last Taught:** Spring 2017, Spring 2016, Fall 2015, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 535 Algorithm Design and Analysis**  
3 cr. Undergraduate/Graduate.  
Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.  
**Prerequisites:** jr st; Math 211(P), 213(P), 221(P) or 231(P); C or better in both CompSci 317(P) & 351(P).  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 536 Software Engineering**  
3 cr. Undergraduate/Graduate.  
Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.  
**Prerequisites:** jr st; grade of C or better in CompSci 251(P).  
**Last Taught:** Spring 2012, Fall 2011, Summer 2011, Spring 2011.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 537 Introduction to Operating Systems**  
3 cr. Undergraduate/Graduate.  
Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.  
**Prerequisites:** jr st; CompSci 458(C) or ElecEng 458(C); CompSci 337(P).  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**COMPSCI 545 FPGA Embedded CPUs & Firmware Development**  
3 cr. Undergraduate/Graduate.  
Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices.  
**Prerequisites:** jr st; ElecEng 367(P) & 457(P).  
**Course Rules:** Jointly offered with & counts as repeat of ElecEng 545.  
**Last Taught:** Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
COMPSCI 547 User-Centered Interaction Design
3 cr. Undergraduate/Graduate.
Introduction of human-computer interaction theories and design processes. Emphasis is on applied user experience (UX) design.
Prerequisites: sr st.
Course Rules: Jointly offered with & counts as repeat of InfoSt 547.
Current Offerings: http://uwm.edu/schedule

COMPSCI 552 Advanced Object-Oriented Programming
3 cr. Undergraduate/Graduate.
An advanced course in object-oriented programming. Abstraction; single and multiple inheritance; dynamic binding of functions; polymorphic types and operators; survey of object-oriented techniques.
Prerequisites: jr st; CompSci 351(P) & 361(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 557 Introduction to Database Systems
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; CompSci 315(215)(P) & 251(P) or equiv.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 581 Web Languages and Standards
3 cr. Undergraduate.
Introduction to languages and standards for Web applications, including markup, schema, style, transformation, and metadata languages. Document programming interfaces. Emphasis on programming language principles.
Prerequisites: jr st; CompSci 431(P) & 417(R).
Current Offerings: http://uwm.edu/schedule

COMPSCI 595 Capstone Project
4 cr. Undergraduate.
Students will integrate their knowledge of the undergraduate computer science curriculum by implementing a significant computer science team project.
Prerequisites: sr st, CompSci 351 (P), CompSci 361 (P), and credit in at least 6 credits of 400 or higher CompSci courses.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 599 Senior Thesis
3 cr. Undergraduate.
Independent scholarly research in Computer Science supervised by a faculty member.
Prerequisites: sr st & cons instr.
Last Taught: Spring 2018, Summer 2014.
Current Offerings: http://uwm.edu/schedule

COMPSCI 654 Introduction to Compilers
3 cr. Undergraduate.
Fundamentals of compiler construction for modern programming languages. Syntax analysis, table organization, storage administration, semantic routines and code generation
Prerequisites: jr st; CompSci 431(P), 655(C).
Current Offerings: http://uwm.edu/schedule

COMPSCI 655 Compiler Implementation Laboratory
3 cr. Undergraduate/Graduate.
Implementation of compiler phases: scanner, parser, semantic analysis; code generation and optimization.
Prerequisites: Prereq. jr st, CompSci 431(P); 654(C) or 754(C).
Current Offerings: http://uwm.edu/schedule

COMPSCI 657 Topics in Computer Science:
1-4 cr. Undergraduate/Graduate.
Lectures on recent advances in computer science. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 658 Topics in Applied Computing:
1-4 cr. Undergraduate.
Lectures on recent advances in applied computing. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

COMPSCI 699 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to max of 6 cr by undergraduates.
Current Offerings: http://uwm.edu/schedule

COMPSCI 700 CEAS Graduate Seminar
1-3 cr. Graduate.
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.
Prerequisites: grad st
Course Rules: Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700, MatlEng 700 & MechEng 700 are jointly offered and count as repeats of one another
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 704 Analysis of Algorithms
3 cr. Graduate.
Introduction to concrete complexity theory and efficient algorithms. Fast data structure and graph algorithms, matrix multiplication, algebraic and numeric algorithms, reducibilities and np-completeness. Exponential and non-elementary lower bounds.
Prerequisites: grad st; CompSci 217(P) & 535(P).
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
COMPSCI 708 Scientific Computing
3 cr. Graduate.
Fundamental algorithms and practical issues of scientific computing, including Monte Carlo simulations, data fitting, fast Fourier transform, optimization, numerical integration & differentiation, parallel computing, selected biomedical applications.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

COMPSCI 710 Artificial Intelligence
3 cr. Graduate.
AI programming, search techniques game playing, knowledge representation, knowledge acquisition, expert systems, selected topics from learning. Natural language understanding, vision and robotics.
Prerequisites: grad st; CompSci 252(P) & 535(P).
Course Rules: Not open to students who have cr in ElecEng 710, which is identical to CompSci 710.
Last Taught: Spring 2018, Spring 2016, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

COMPSCI 711 Introduction to Machine Learning
3 cr. Graduate.
Introduction to machine learning techniques and applications, including optimal classification, regression, support vector machines, boosting, deep learning, and clustering.
Prerequisites: grad st
Course Rules: ElecEng 711 & CompSci 711 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Spring 2016, Fall 2013, Spring 2011.
Current Offerings: http://uwm.edu/schedule

COMPSCI 712 Image Processing
3 cr. Graduate.
This course covers the materials required to process and enhance photographic images, remote sensor multispatial scanner data and others. Topics include transform techniques, recorders, discriminate function, and associated hardware.
Prerequisites: grad st
Course Rules: ElecEng 410(P) or cons instr.
Course Rules: Jointly offered w/ and counts as a repeat of ElecEng 713.
Last Taught: Fall 2005.
Current Offerings: http://uwm.edu/schedule

COMPSCI 713 Computer Vision
3 cr. Graduate.
Fundamental issues and current research in computer vision. Topics in early or low-level vision, intermediate vision or perceptual organization, and high-level vision or object recognition.
Prerequisites: grad st; ElecEng 410(P) or cons instr.
Course Rules: Jointly offered w/ and counts as a repeat of ElecEng 713.
Last Taught: Fall 2005.
Current Offerings: http://uwm.edu/schedule

COMPSCI 714 Computational Geometry
3 cr. Graduate.
Special data structures and algorithmic techniques for representing and manipulating geometric objects, such as points, lines and polygons. Applications to vlsi design and robotics.
Prerequisites: grad st; CompSci 535(P).
Current Offerings: http://uwm.edu/schedule

COMPSCI 718 Advanced Computer Graphics: Modeling and Animation
3 cr. Graduate.
Advanced graphics topics on mesh processing, illumination models, ray-tracing, and volumetric data visualization; popular animation approaches such as keyframes, particles, fluids and rigid bodies.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMPSCI 720 Computational Models of Decision Making
3 cr. Graduate.
Theoretical foundations and practical problems of formulating and constructing computational models of decision making.
Prerequisites: basic course in Probability or Statistics.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMPSCI 722 Artificial Intelligence Planning Techniques
3 cr. Graduate.
Algorithms and representations for classical and more expressive planning, search control techniques, study and comparison of a variety of planners, applications of planning.
Prerequisites: grad st; Comp Sci 535(P).
Current Offerings: http://uwm.edu/schedule

COMPSCI 723 Natural Language Processing
3 cr. Graduate.
Principles and problems of natural language processing with emphasis on recent advances and open problems. Topics: lexicons, parsing, interpretation, discourse structure, generation, and collaborative interfaces.
Prerequisites: grad st; CompSci 422(P) or 710(P).
Course Rules: Not open to students with cr in CompSci 423.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

COMPSCI 724 Distributed Algorithms
3 cr. Graduate.
Identification of canonical problems in distributed computing, design and analysis of algorithms to solve these problems. Formal proof techniques and impossibility results.
Prerequisites: grad st; CompSci 517(P), 535(P), or 523(P).
Current Offerings: http://uwm.edu/schedule

COMPSCI 725 Robot Motion Planning
3 cr. Graduate.
Configuration space, C-obstacles, sampling-based algorithms, potential fields, coverage, hierarchical motion planning, human control, relaxation, moving or deformable obstacles, multirobot motion planning, metrics, outdoor planning.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

COMPSCI 729 Real-Time Operating Systems
3 cr. Graduate.
Fundamentals of real-time operating systems with emphasis on scheduling and resource management.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule
COMPSCI 730 Advanced Computer Networks
3 cr. Graduate.
Network architecture, protocols, routing, congestion control, traffic management, ATM, optical networks, TCP/IP, LANs, WANs, QOS, wireless and mobile networks, mobility management, security, multimedia, network management.
Prerequisites: CompSci 520 (P).
Last Taught: Fall 2014, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

COMPSCI 732 Type Systems for Programming Languages
3 cr. Graduate.
Lambda calculus, simple types, record types, subtypes, polymorphic types, type reconstruction, universal types, bounded quantification, higher-order types.
Prerequisites: grad st; CompSci 431 (P) & 654 (P).
Last Taught: Fall 2016, Spring 2015, Spring 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

COMPSCI 737 Software Project Management
3 cr. Graduate.
Concepts and techniques for management of large software projects. Life cycle models; team organization; cost estimation and budgeting; schedule and risk management; software metrics.
Prerequisites: grad st; CompSci 361 (P) or equivalent
Current Offerings: http://uwm.edu/schedule

COMPSCI 738 Program Analysis for Software Engineering
3 cr. Graduate.
Static techniques for determining run-time properties of a program: data-flow analysis, abstract interpretation.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMPSCI 743 Intelligent User Interfaces
3 cr. Graduate.
Principles, methods, and current research in intelligent user interfaces including applications, architectures, knowledge representation, and evaluation.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2015, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

COMPSCI 744 Text Retrieval and Its Applications in Biomedicine
3 cr. Graduate.
Fundamental issues and current research in text retrieval, text classification and their biomedical applications; Programming and use of indexing, query processing, and document retrieval methods.
Prerequisites: grad st; COMPSCI 351 (P) or HCA 442 (P)
Course Rules: Not open to students who have cr in HCA 744, COMPSCI 444, or HCA 444.
Last Taught: Spring 2015, Spring 2013, Fall 2010, Fall 2007.
Current Offerings: http://uwm.edu/schedule

COMPSCI 747 Principles & Practices of User Interface Design
3 cr. Graduate.
Principles and practices of user interface design for desktop, web, and mobile applications: interaction principles; UI design elements; user-centered design process and practices.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMPSCI 754 Compiler Construction and Theory
3 cr. Graduate.
Fundamentals of compiler construction for modern programming languages. Syntax analysis, table organization, storage administration, semantic routines and code generation.
Prerequisites: grad st.
Course Rules: Not open to those who have cr in CompSci 654.
Current Offerings: http://uwm.edu/schedule

COMPSCI 755 Information and Coding Theory
3 cr. Graduate.
Information measures, entropy, source coding, channon's theorems, channel capacity, error correcting codes, linear codes, convolutional codes, arithmetic codes, encoding and decoding algorithms.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMPSCI 757 Data Base Organization and File Structure
3 cr. Graduate.
Introduction to automatic information organization and retrieval. Dictionary construction and operation, statistical and syntactic operations, performance evaluation of retrieval systems, design of query languages, models of database systems, database security.
Prerequisites: grad st; CompSci 217 (P) & 535 (P).
Current Offerings: http://uwm.edu/schedule

COMPSCI 758 Advanced Computer Architecture
3 cr. Graduate.
Advanced topics in computer architecture including pipeline processing, multiple and parallel processing systems, performance enhancement issues and VLSI computing structures.
Prerequisites: grad st; CompSci 458 (NP) or ElecEng 458 (NP).
Course Rules: Not open to students who have cr in ElecEng 758, which is identical to CompSci 758.
Current Offerings: http://uwm.edu/schedule

COMPSCI 759 Data Security
3 cr. Graduate.
Protection of data in computer and communication systems, cryptography, classical one key and public key cryptosystems, database protection, operating system security.
Prerequisites: grad st; CompSci 217 (P) & 536 (P).
Current Offerings: http://uwm.edu/schedule
COMPSCI 760 Computer Systems Performance Evaluation
3 cr. Graduate.
Performance measurement and tools, workload characterization, markov models, queueing theory, simulation, benchmarks, data analysis, parallel systems performance analysis.
Prerequisites: grad st; CompSci 458(P) or ElecEng 458(P).
Course Rules: Not open to students who have cr in ElecEng 760, which is the same as CompSci 760.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Spring 2013.
Current Offerings: http://uwm.edu/schedule

COMPSCI 761 Software Testing and Verification
3 cr. Graduate.
Software testing techniques: test case generation, test oracles, regression testing, structural testing, test coverage, mutation testing, and model-based testing. Testing for object-oriented and distributed software. Security testing.
Prerequisites: grad st; CompSci 361(P) or equivalent
Current Offerings: http://uwm.edu/schedule

COMPSCI 762 Fault-Tolerant Computing
3 cr. Graduate.
Faults in digital circuits, fault detection, fault location, system reconfiguration or repair, system recovery, design for testability, self-checking circuits, fault-tolerant interconnection networks, systems level fault-diagnosis, fault-tolerant software.
Prerequisites: grad st; ElecEng 354(P).
Course Rules: Not open to students with cr for ElecEng 762.
Current Offerings: http://uwm.edu/schedule

COMPSCI 780 Multimedia Systems
3 cr. Graduate.
Survey of principles and applications of multimedia computer systems. Media fundamentals. Networking, architecture, software engineering, and user interface issues.
Prerequisites: CompSci 537(P).
Current Offerings: http://uwm.edu/schedule

COMPSCI 790 Advanced Topics in Computer Science
3 cr. Graduate.
Discussion of special advanced topics in theoretical as well as applied areas in computer science.
Prerequisites: grad st, add'l prereqs depending on topic.
Course Rules: Retakable w/chg in topic to 9 cr max. Specific topics may be jointly-offered w/Philos.
Current Offerings: http://uwm.edu/schedule

COMPSCI 805 Randomized Algorithms; Pseudorandom Numbers
3 cr. Graduate.
Prerequisites: CompSci 704(P) CompSci 523(R).
Last Taught: Fall 2013, Fall 2010, Spring 2007, Fall 2005.
Current Offerings: http://uwm.edu/schedule

COMPSCI 810 Knowledge Representation
3 cr. Graduate.
Study of the design and properties of formalisms for representing knowledge in computational systems. Topics include: first-order logic, nonmonotonic logic, uncertainty, time, space, beliefs, plans.
Prerequisites: grad st; CompSci 710(P).
Last Taught: Fall 2014, Spring 2011.
Current Offerings: http://uwm.edu/schedule

COMPSCI 854 Advanced Compiler Techniques
3 cr. Graduate.
Details of compiler construction: syntax theory, attribute grammars, implementing advanced language features, optimization
Prerequisites: grad st; CompSci 654(P) or 754(P)
Last Taught: Fall 2015, Fall 2010.
Current Offerings: http://uwm.edu/schedule

COMPSCI 859 Advanced Cryptography and Security Protocols
3 cr. Graduate.
Elliptic curve cryptography, AES, cryptanalysis, secret sharing, zero knowledge proofs, provable security.
Prerequisites: grad st; CompSci 469(P) & CompSci 535(P), or CompSci 759(P)
Last Taught: Spring 2012, Fall 2008.
Current Offerings: http://uwm.edu/schedule

COMPSCI 870 Medical Informatics Seminar
1 cr. Graduate.
Presentations by medical informatics affiliated faculty and invited speakers. Graduate students may present their work or published research from recent medical informatics journals or conferences.
Prerequisites: grad st.
Course Rules: Meets once every two weeks for 100 minutes.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, IndEng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Last Taught: Spring 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

COMPSCI 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Summer 2017, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

COMPSCI 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule
COMPSCI 995 Master's Capstone Project
1-3 cr. Graduate.
Independent project supervised by student's adviser
Prerequisites: grad st; cons instr & grad prog comm.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPSCI 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog committee.
Current Offerings: http://uwm.edu/schedule

COMPSCI 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog comm.
Current Offerings: http://uwm.edu/schedule

Computer Studies Courses

COMPST 701 Mathematical & Computing Fundamentals for IT Professionals
3 cr. Graduate.
Introductory discussion of logic and reasoning techniques, discrete structures, combinatorics, probability, and their applications to IT.
Prerequisites: grad st.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

COMPST 702 Software Development in Python
3 cr. Graduate.
Programming in Python. Basic control structures including recursion. Basic and library data types. Problem solving with objects. Writing classes. Basic software development skills.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMPST 703 Software Engineering Principles
3 cr. Graduate.
Introduction to core topics of software engineering including requirements analysis, object-oriented design, testing, and project management. Overview of ethical and social issues in computing.
Prerequisites: CompSt 702 or equiv.
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule

COMPST 705 Problem Solving with Object-Oriented Programming
3 cr. Graduate.
Problem solving with object-oriented programming language. Topics include arrays, strings, classes, standard data structures, graphical user interfaces, exceptions, files, debugging, and configuration management.
Prerequisites: Previous programming experience such as CompSt 702(P), CompSci 240(P), or CompSci 250(P).
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

COMPST 710 Data Structures and Algorithms
3 cr. Graduate.
Programming in a structured, high-level, object-oriented language. Implementation of data structures and algorithms and their application.
Prerequisites: CompSt 750(P) or CompSci 251(R).
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

COMPST 790 Advanced Topics in Computer Studies:
3-9 cr. Graduate.
Discussion of special advanced topics in the study of computing. Retakable with change in topic to 9 cr max.
Prerequisites: grad st; add'l prereqs depending on topic.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian Armstrong</td>
<td>Professor</td>
<td>PhD</td>
<td>Stanford University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John T. Boyland</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
<td></td>
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</tr>
<tr>
<td>Christine T. Cheng</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
<td></td>
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</tr>
<tr>
<td>Robert Cuzner</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>George I. Davida</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Adrian Dumitrescu</td>
<td>Professor</td>
<td>PhD</td>
<td>Rutgers, The State University of New Jersey</td>
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<tr>
<td>Mukul Goyal</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
<td></td>
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</tr>
<tr>
<td>George W. Hanson</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seyed Hosseini</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yi Hu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Texas at Dallas</td>
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</tr>
<tr>
<td>Charles E. Kahn Jr.</td>
<td>Adjunct Professor</td>
<td>MD</td>
<td>University of Illinois at Chicago</td>
<td></td>
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</tr>
<tr>
<td>Nikolai A. Kouklin</td>
<td>Associate Professor, Professor</td>
<td>PhD</td>
<td>University of Nebraska-Lincoln</td>
<td></td>
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</tr>
<tr>
<td>Robert J. Krueger</td>
<td>Professor</td>
<td>PhD</td>
<td>Purdue University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chiu T. Law</td>
<td>Associate Professor</td>
<td>PhD</td>
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</tbody>
</table>
Applied Computing, BS

The B.S. in Applied Computing is a fully online 21-course, 61-credit undergraduate program.

As technology continues to expand into every field and industry, from the environment to education to politics, the market for skilled hands-on technicians grows increasingly competitive. The Bachelor of Science in Applied Computing was designed to produce graduates who can perform programming, software engineering, graphic applications, networking, and operating systems management in a variety of environments, while at the same time promoting power skills such as business communications, ethics, and project management.

The applied nature of the degree implies that graduates will have the competencies to solve real-world business problems through the application of technology. Its curriculum puts a deeper focus on fundamental computer science, software engineering, tech security issues, computing solutions for business problems, and data management. A poll of industry representatives indicates that they see a skills gap in computer and information technology related positions which the multidisciplinary focus of this degree would fill.

Accreditation
The UW Bachelor of Science in Applied Computing program is approved by the University of Wisconsin Board of Regents and approved by the Higher Learning Commission (http://www.ncahlc.org).

Admissions Process and Requirements
A successful applicant will have:

- A minimum combined grade point average of 2.0 for college credits taken;
- About 60 transferable college credits or an associate degree from an accredited university;
- Prerequisite work in college algebra;
- Completed online application for undergraduate study; and
- Transcripts sent directly from previous institutions to UWM.

Tuition, Fees, and Financial Aid
Tuition is $495 per credit or $30,195 total for 61 credits. Textbooks are purchased separately and are not included in tuition. Students who take at least six credits each term may be eligible for financial assistance.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>APC 300</td>
<td>Programming 1</td>
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<tr>
<td>APC 310</td>
<td>Math for Computer Science</td>
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</tr>
<tr>
<td>APC 320</td>
<td>Introduction to Business</td>
<td>3</td>
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<tr>
<td>APC 330</td>
<td>Technical and Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>APC 340</td>
<td>Legal and Ethical Responsibilities of the IT Professional</td>
<td>3</td>
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<tr>
<td>APC 350</td>
<td>Programming 2</td>
<td>3</td>
</tr>
<tr>
<td>APC 360</td>
<td>Database Management 1</td>
<td>3</td>
</tr>
<tr>
<td>APC 370</td>
<td>System Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>APC 380</td>
<td>Project Management Techniques</td>
<td>3</td>
</tr>
<tr>
<td>APC 390</td>
<td>Object Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>APC 400</td>
<td>Applied Communication Networks</td>
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<tr>
<td>APC 410</td>
<td>Database Management 2</td>
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<tr>
<td>APC 420</td>
<td>Computer Security 1</td>
<td>3</td>
</tr>
<tr>
<td>APC 440</td>
<td>Web Development</td>
<td>3</td>
</tr>
</tbody>
</table>
Outcomes and Objectives

Students completing the B.S. in Applied Computing will leave the program as professionals with the following established competencies:

- Demonstrate a solid foundation in core computer science
- Demonstrate a solid foundation in software engineering practices
- Recognize and address security issues
- Implement a computing solution for a business problem
- Demonstrate effective oral and written communication skills
- Demonstrate a solid foundation in data management

APC 300 Programming 1
3 cr. Undergraduate.
Introduction to history of computing, fundamental computer concepts and structured programming techniques.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

APC 310 Math for Computer Science
3 cr. Undergraduate.
Important foundational topics in computer science.
Prerequisites: none.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

APC 320 Introduction to Business
3 cr. Undergraduate.
Introduction to the major functional areas of business including the roles of accounting, finance, human resources, marketing, information systems, and operations in the organization.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

APC 330 Technical and Professional Communication
3 cr. Undergraduate.
Technical and professional communication skills and techniques. Practice in creating effective memos and reports, developing technical material, delivering presentations, and developing communication within teams.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

APC 340 Legal and Ethical Responsibilities of the IT Professional
3 cr. Undergraduate.
Legal, regulatory, ethical and compliance issues associated with developing software and using information systems in an organization.
Prerequisites: admits to BS-APC prog; APC 320(P).
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

APC 350 Programming 2
3 cr. Undergraduate.
Continuation of fundamental computer concepts and Programming.
Prerequisites: APC 300(P); 310(P).
Current Offerings: http://uwm.edu/schedule

APC 360 Database Management 1
3 cr. Undergraduate.
Design and implementation of relational database management systems to support computer-based information systems.
Prerequisites: admits to BS-APC prog; APC 300(P); 310(P).
Current Offerings: http://uwm.edu/schedule

APC 370 System Analysis and Design
3 cr. Undergraduate.
The five phases of Systems Development Life Cycle: scope definition, problem analysis, requirements analysis, logical design and decision analysis.
Prerequisites: admits to BS-APC prog; APC 300(P); 320(P); 330(P).
Current Offerings: http://uwm.edu/schedule

APC 380 Project Management Techniques
3 cr. Undergraduate.
An introduction to project management techniques including project selection and life cycle, stakeholder/scopequality/procurement management, budget control, scheduling, risk identification.
Prerequisites: admits to BS-APC prog; APC 370(P).
Current Offerings: http://uwm.edu/schedule

APC 390 Object Oriented Programming
3 cr. Undergraduate.
An introduction to Object-Oriented Programming techniques using the Java programming language.
Prerequisites: APC 350(P).
Current Offerings: http://uwm.edu/schedule

APC 400 Applied Communication Networks
3 cr. Undergraduate.
Fundamental concepts in the design, configuration, and problem solving of computer networks.
Prerequisites: admits to BS-APC prog; APC 350(P).
Current Offerings: http://uwm.edu/schedule

APC 410 Database Management 2
3 cr. Undergraduate.
Architecture and use-cases of non-relational (NoSQL) based on four types of databases including document, Graph, Key-value, and wide column store.
Prerequisites: admits to BS-APC prog; APC 360(P).
Current Offerings: http://uwm.edu/schedule

APC 420 Computer Security 1
3 cr. Undergraduate.
Security and risk management, security engineering, identity and access management, and security operations.
Prerequisites: APC 350(P).
Current Offerings: http://uwm.edu/schedule

APC 430 Applied Data Structures and Algorithms
3 cr. Undergraduate.
Concepts and the application of data structures and algorithms.
Prerequisites: APC 390(P).
Current Offerings: http://uwm.edu/schedule
Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Phone: 1-877-895-3276
learn@uwex.edu

Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science)
The Applied Mathematics and Computer Science (AMCS) program is a special degree program that blends courses from both the College of Letters & Science and the College of Engineering & Applied Science. It is a structured curriculum offering courses from both applied math and computer science so that students get the benefit of both majors without having to double major.

The job outlook for individuals with math majors is extremely favorable, as is the job outlook for computer science majors. A student with combined knowledge in both areas is likely to be in high demand on the job market.

Our program is highly technical in nature yet still retains elements of a classic liberal arts degree. Students take courses in the humanities, social sciences, and natural sciences on their way to a degree. Why? Because math and computer science are not applied in a world without humans. Regardless of the type of industry, the applications being worked on have impact and consequences for human beings. A broad world view of cultures, history, and society only leads to better decision-making in scientific careers, and strong communication skills only make our graduates even more attractive.

Requirements

Honors in the College of Engineering and Applied Science

Dean’s Honor List
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.
Admission
As soon as students realize their interest in the AMCS degree, they should consult with an AMCS advisor either in College of Engineering and Applied Science or College of Letters and Science, who assists in planning a program. Students may be given the AMCS classification at any point in their studies; however, they are not formally admitted to the major until their junior year. Admission to the junior year of the program requires a GPA of at least 2.500 in 8 credits of mathematics courses at or above the 200 level and 6 credits of computer science courses at or above the 200 level.

Degree Requirements
For the BS (AMCS) degree, 120 credits are required, of which 80 must be taken from the College of Letters and Science. Students must satisfy the general education requirements (GER) of the University. They must complete at least 6 credits each from humanities and social sciences, 3 credits from the arts, and 6 additional credits in any of these three areas or in foreign languages. Students also must take at least 8 credits of natural sciences outside of mathematics or mathematical statistics, including at least one laboratory course from biological sciences, chemistry, or physics. A cultural diversity course must be included among the humanities and social science courses selected.

An overall GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

• The last 30 credits;
• 45 of the last 60 credits;
• Any 90 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>Select the following (or an equivalent sequence):</td>
<td>12</td>
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</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
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<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
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<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
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<tr>
<td>or MATH 240</td>
<td>Matrices and Applications</td>
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<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
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</table>

Advanced Requirements
Select 9 credits in COMPSCI at the 300 level or above
Select 6 credits from MATH and/or MTHSTAT at the 300 level or above
Select one of the following sequences:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 313 &amp; MATH 315</td>
<td>Linear Programming and Optimization and Mathematical Programming</td>
<td></td>
</tr>
<tr>
<td>MATH 320 &amp; MATH 322</td>
<td>Introduction to Differential Equations and Introduction to Partial Differential Equations</td>
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<tr>
<td>MATH 413 &amp; MATH 415</td>
<td>Introduction to Numerical Analysis and Introduction to Scientific Computing</td>
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<tr>
<td>MATH 521 &amp; MATH 522</td>
<td>Advanced Calculus I and Advanced Calculus II</td>
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<tr>
<td>MATH 531 &amp; MATH 535</td>
<td>Modern Algebra and Linear Algebra</td>
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<tr>
<td>MATH 631 &amp; MATH 632</td>
<td>Modern Algebra I and Modern Algebra II</td>
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<tr>
<td>MTHSTAT 361 &amp; MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics I and Introduction to Mathematical Statistics II</td>
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</table>

Select 21 additional credits from CompSci, Math, and MthStat courses at the 300 level or above, beyond the "Core" as well as the above "Advanced" Requirements

Total Credits 79

Potential Course of Study

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
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</tr>
<tr>
<td></td>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
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<td>MATH 116</td>
<td>College Algebra</td>
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<td>MATH 117</td>
<td>Trigonometry</td>
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<td></td>
<td>Humanities or Social Science</td>
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<td>Spring</td>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
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<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
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<tr>
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<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
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<tr>
<td></td>
<td>Arts</td>
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<td></td>
<td>Humanities or Social Science</td>
<td>3</td>
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<tr>
<td>Year 2</td>
<td>Fall</td>
<td>COMPSCI 315</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMPSCI 351</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td></td>
</tr>
<tr>
<td></td>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities or Social Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>Spring</td>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Natural Science with lab</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>Year 3</td>
<td>Fall</td>
<td>COMPSCI 535</td>
<td>3</td>
</tr>
</tbody>
</table>
Computer Science, BS

Computer science is the study and design of computer systems, networks, software, and computing techniques. But more importantly, it is a dynamic field with a growing impact on the world today. A report on Science, Technology, Engineering and Math (STEM) from the Georgetown University Center on Education and the Workforce (http://cew.georgetown.edu/STEM) forecasts 51% of STEM occupations will be computer occupations by 2018.

Concentrations
- Artificial Intelligence
- Programming Language Design and Implementation
- Software Engineering
- Computer Networking
- Algorithm Design

Research

Honors in the Degree
Students in AMCS who meet all of the following criteria can be awarded honors in the degree upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses attempted that count toward the AMCS degree;
3. A 3.500 GPA over all upper division UWM courses counting toward the AMCS degree;
4. A grade of B+ or better in one of: MATH 599, MATH 699, COMPSCI 595, or COMPSCI 699;
5. Completion of 3 credits in Mathematical Sciences (curricular areas MATH or MTHTSTAT) or Computer Science in a course numbered 600 or higher that is different from MATH 699 and COMPSCI 699.

Accreditation
The computer science program is accredited by the Computing Accreditation Commission of ABET, 415 N. Charles Street, Baltimore, MD 21201, (410) 347-7700.

New Freshmen
Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to the First-Year Program. Admission directly to the major is selective.

Transfer Students
Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or the Transfer Transition Program based on the number of transfer credits and GPA.

Admission to the Major
Students admitted to the First-Year Program or Transfer Transition Program (Engineering-Intended or Computer Science-Intended) may apply
for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

First-Year students have a maximum of three semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Transfer Transition students have a maximum of two semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Placement Testing
Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in math, English, and foreign language may need additional credits. Computer Science students who need background preparation courses in math, English, and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry.

The minimum number of credits required to complete the Bachelor of Science in Computer Science with a major in Computer Science is 120.

Students who need background preparation courses in math, English, and foreign language may need additional credits. Computer Science students may apply for major status with their academic advisor at any time they believe they meet the requirements. Admission to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 150</td>
<td>Survey of Computer Science (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 337</td>
<td>System Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 361</td>
<td>Introduction to Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 395</td>
<td>Social, Professional, and Ethical Issues</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 417</td>
<td>Introduction to the Theory of Computation</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 431</td>
<td>Programming Languages Concepts</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 595</td>
<td>Capstone Project</td>
<td>4</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELEENG 354</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics Requirement**

Select one of the following: 4-5

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
</tbody>
</table>

**Natural Science Requirement**

Complete 12 credits including at least 1 laboratory credit. 12

Must include one of the following sequences:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150 &amp; BIO SCI 152</td>
<td>Foundations of Biological Sciences I and Foundations of Biological Sciences II</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 202 &amp; BIO SCI 203</td>
<td>Anatomy and Physiology I and Anatomy and Physiology II</td>
<td></td>
</tr>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 122</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics II (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 210</td>
<td>Physics I (Calculus Treatment) and Physics II (Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>

Remaining credits to be chosen from the Natural Science GER list, except that CompSci 150, Math and MathStat courses may not be used as part of the Natural Science Requirement. 1-3

**GER Distribution Requirement**

Arts 3

Humanities 3

Social Science 3

COMMUN 105 | Business and Professional Communication | 3

ENGLISH 310 | Writing, Speaking, and Technoscience in the 21st Century | 3

Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement

**English Composition Requirement**

Satisfied by one of the following: 0-6

- Earning a satisfactory score on the English placement test; or
- Earning a grade of C or higher in ENGLISH 102; or...
Technical Electives - Select 15 credits from the following three lists:

All non-required CompSci courses numbered 400-699 are either Computer Science or Applied Technology Electives. The Applied Technology Electives are numbered 480-489. All other non-required CompSci courses in the 400-600 range are Computer Science Electives. A minimum of 9 credits must come from the Computer Science Electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 422</td>
<td>Introduction to Artificial Intelligence</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 423</td>
<td>Introduction to Natural Language Processing</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 425</td>
<td>Introduction to Data Mining</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 444</td>
<td>Introduction to Text Retrieval and Its Applications in Biomedicine</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 444</td>
<td>Introduction to Text Retrieval and Its Applications in Biomedicine</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 511</td>
<td>Symbolic Logic</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 530</td>
<td>Computer Networks Laboratory</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 536</td>
<td>Software Engineering</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 552</td>
<td>Advanced Object-Oriented Programming</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 581</td>
<td>Web Languages and Standards</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 599</td>
<td>Senior Thesis</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 654</td>
<td>Introduction to Compilers</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 655</td>
<td>Compiler Implementation Laboratory</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 657</td>
<td>Topics in Computer Science:</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 699</td>
<td>Independent Study</td>
<td>3-6</td>
</tr>
<tr>
<td>ELECENG 367</td>
<td>Introduction to Microprocessors</td>
<td>3-6</td>
</tr>
<tr>
<td>ELECENG 451</td>
<td>Introduction to VLSI Design</td>
<td>3-6</td>
</tr>
<tr>
<td>ELECENG 457</td>
<td>Digital Logic Laboratory</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications</td>
<td>3-6</td>
</tr>
<tr>
<td>COMPSCI 658</td>
<td>Topics in Applied Computing:</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Applied Mathematics Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>3-6</td>
</tr>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 240</td>
<td>Matrices and Applications</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 305</td>
<td>Introduction to Mathematical and Computational Modeling</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Mathematical Programming and Optimization</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Mathematical Models and Applications</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 431</td>
<td>Modern Algebra with Applications</td>
<td>3-6</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Axiomatic Geometry</td>
<td>3-6</td>
</tr>
<tr>
<td>MTHSTAT 361</td>
<td>Introduction to Mathematical Statistics</td>
<td>3-6</td>
</tr>
<tr>
<td>MTHSTAT 469</td>
<td>Biostatistics</td>
<td>3-6</td>
</tr>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.
In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Dual Majors**

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

**Concurrent Registration at Other Institutions**

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

**Student Academic Appeals**

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

**Computer Science and Engineering Programs**

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation.

Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.
Program Educational Objectives
The educational objectives of the undergraduate Computer Science Program are:

1. Alumini of the program will have successful careers built on their understanding of formal and applied methods of solving problems using computer theory, hardware, and software.
2. In their professional lives, alumini of the program will demonstrate problem-solving and design skills, including the ability to formulate problems and their solutions, think creatively, communicate effectively, and work collaboratively.
3. Alumini of the program will exercise professional responsibility and be able to adapt to an ever-changing professional environment.

Honors in the College of Engineering and Applied Science

Dean's Honor List
GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Joint Programs with Other Campuses

Pre-engineering
Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

Computer Science, Minor
The computer science minor is directed toward those students wishing to develop some strength and background in computer science. This minor also is available to those who have already graduated.

Requirements
- The minor requires 18 credits selected from Computer Science courses.
- Minimum of 9 credits from 300-level coursework or higher. May not include COMPSCI 395 and prior consent is required to include COMPSCI 657 or COMPSCI 658.
- Minimum of 12 credits of minor coursework must be completed at UWM.
- The student must obtain a minimum GPA, as specified by the department, in the courses used to complete the minor.
- If a bachelor’s degree was obtained at another institution, upon completion of the minor requirements the student will be awarded a Certificate of Minor.

Computer Science, MS
The MS in Computer Science program is a rigorous graduate program designed to meet the needs of any student wishing to gain advanced understanding of the principles and practices needed to harness the power of computing to help society and the world. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity.

Tracks
The Master of Science in Computer Science (MSCS) degree offers a regular track and a professional track. The regular track is designed to
prepare students for PhD research in Computer Science. The professional track is designed to prepare students, possibly with undergraduate majors other than computer science, for success in their industrial careers. Students in the professional track are not eligible for financial aid from Computer Science department.

- MSCS Regular Track
- The Professional Track

### Requirements

#### Admission Requirements

#### Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

#### Credits and Courses

**MSCS Regular Track**

An applicant must meet Graduate School requirements to be considered for admission. Additionally, the applicants must meet either of the following program requirements:

- Undergraduate major in Computer Science.
- Satisfactory completion of two programming courses (such as COMPSCI 250 and COMPSCI 251); at least 6 additional credits of coursework in CS; and one course in calculus (such as MATH 211 or MATH 231).

Applicants without sufficient Computer Science background are encouraged to apply to the professional track. Applicants not admitted to the regular track may be offered admission to the professional track instead. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

The student must have taken six Computer Science courses (specified below) or their equivalents prior to completion of the M.S. Program. Appropriate courses taken by a student in another program that are considered equivalent to the courses below can be used to satisfy this requirement with the approval of the Department. The six courses are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

At most six credits of the courses used to satisfy this requirement (excluding COMPSCI 315, COMPSCI 317 and COMPSCI 351) and taken as a graduate student may be used in either option of the program. All students must submit an approved Undergraduate Requirements Assessment (which explains how the requirement will be met) prior to registering for any courses.

The students in the regular track must write a thesis or complete a capstone project.

#### Thesis Option

The minimum credit requirement is 30, comprising:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 704</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional credits of 700 or higher level courses, including the following:</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of additional courses that carry graduate credit</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 990</td>
<td>Masters Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 30

1 Excluding COMPSCI 990.

All courses must be approved in the Program of Study. The student must not register for more than 4 credits of COMPSCI 990 in any one semester. The student must write an acceptable thesis under the supervision of a faculty advisor and pass a final comprehensive examination, which will normally focus on the thesis. Once a student begins a thesis under the supervision of an advisor, the graduate program director must approve any change to a new thesis advisor.

#### Capstone Option

The minimum credit requirement is 31, comprising:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>COMPSCI 704</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 995</td>
<td>Master’s Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>Select 15 additional credits of 700 or higher level courses</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of additional courses that carry graduate credit</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 31

The student must complete a capstone project under the supervision of a faculty advisor and pass COMPSCI 995 with a grade of B or better.

#### Capstone Requirement

The student must demonstrate the ability to integrate the knowledge of the discipline in one of the following ways:

- A capstone project completed under faculty supervision by completing the 3-credit COMPSCI 995 course with a B or better grade. These credits can be applied towards the requirement regarding 700-level CompSci courses.
- An oral exam based on a prior open-source or professional project completed by the student. The student must ensure that faculty can review the actual implementation of the project.

#### The Professional Track

An applicant must meet Graduate School requirements to be considered for admission. We expect that students admitted to the professional track will have knowledge of computer programming to the extent of COMPSCI 250 and COMPSCI 251. Applicants can demonstrate this knowledge via academic coursework or online courses. Applicants can also explain in their Statement of Purpose if they gained this knowledge via work experience. All admitted students must take a placement test.
on their knowledge of computer programming. The students may be required to additionally take COMPSCI 250 and COMPSCI 251 based on their performance in this test.

The student must demonstrate knowledge equivalent to the following four Computer Science courses prior to completion of the M.S. Program:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

This requirement can be met in one of the following ways:

- A grade B or better in these courses or equivalent CompSt courses.
- Passing the sufficiency exams offered by the course instructors.
- Prior academic coursework approved by the academic advisor.

The credits earned while taking these courses as a graduate student may be used to meet the credit requirements of the program. All students must submit an approved Undergraduate Requirements Assessment (which explains how the requirement will be met) prior to registering for any courses.

The minimum credit requirement is 31 graduate credits, comprising:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Select at least 15 credits of 700-level CompSci courses</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Select up to 9 graduate credits of courses from a pre-approved list of non-CompSci courses considered useful for professionals in CompSci-related industries</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select the remaining credits from graduate-level or U/G-level CompSci courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1 These 15 credits may include COMPSCI 995, which is required for those students who fulfill the Capstone Requirement by completing a capstone project.

Up to 12 credits of prior graduate-level course work (including up to 6 credits of prior graduate-level Computer Science courses) can be used to meet the credit requirements. All courses must be approved in the Program of Study. Any non-CompSci courses must be approved prior to registering.

**Industrial Internship**
With faculty advisor's approval, one credit per semester of COMPSCI 990 or COMPSCI 995 may be satisfied with a supervised industrial internship for a maximum of two credits.

**Program Requirements**

**Major Professor as Advisor**
The student is assigned an initial faculty advisor at the time of admission. The student selects a faculty member as a thesis or capstone advisor, respectively, as they follow the regular or professional track, after consultation with that faculty member. Any change in faculty advisor requires the documented permission of the new faculty member and the Department. An initial Program of Study with student, advisor and Department approval should be completed prior to the completion of 9 credits in the program. The final Program of Study must be approved by the thesis or capstone advisor, as appropriate.

**Switching between Tracks**
A student in the regular track may switch to the professional track at any time. However, such a student will no longer be eligible for research/teaching/project assistantships or any other financial aid from Computer Science department. A student admitted under the professional track may switch to the regular track after completing at least 15 credits of the professional track with at least 3.5 cumulative GPA. Note that not all courses acceptable under the professional track may be acceptable under the regular track.

**Financial Aid**
Students enrolled in the professional track are not eligible for financial aid from Computer Science department including research assistantships, teaching assistantships, project assistantships, fellowships and/or tuition waivers. However, such students are still eligible for financial aid available elsewhere on the campus.

**Time Limit**
All students must complete the degree requirements within five years of initial enrollment.

**Web Development, Undergraduate Certificate**
The Web Development Certificate is designed to offer students the opportunity to complement their major field of study with an additional concentration in web programming. This certificate is also available to those who have already graduated.

**Requirements**
At least 8 credits must be completed at UWM. The student must maintain a minimum GPA, as specified by department, in courses used to complete the certificate. No course may be taken on a credit/no credit basis.

The 18-credit certificate requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 202</td>
<td>Introductory Programming Using Python</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Web Documents (3 credits) - Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 113</td>
<td>Introduction to Web Document Production</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 320</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>Web Programming (3 credits) - Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 361</td>
<td>Introduction to Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming</td>
<td>3</td>
</tr>
<tr>
<td>Web Applications (3 credits) - Must complete this course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications</td>
<td>3</td>
</tr>
</tbody>
</table>
### Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electives (6 credits) - Select 2 courses from the following list:</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ART 218</td>
<td>2D Design Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 531</td>
<td>Developing Web Applications Using Web Services</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 532</td>
<td>Web Development for Open Business Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 313</td>
<td>Human Communication and Technology</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 413</td>
<td>Rhetoric and the Internet</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 112</td>
<td>Introduction to the Internet and the World Wide Web</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 150</td>
<td>Survey of Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 425</td>
<td>Introduction to Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 444</td>
<td>Introduction to Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 530</td>
<td>Computer Networks Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 552</td>
<td>Advanced Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 530</td>
<td>Workshop in Computer Instruction in the Schools</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 547</td>
<td>Curricular Applications of the Internet</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
<td>3</td>
</tr>
<tr>
<td>HCA 444</td>
<td>Introduction to Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>HCA 542</td>
<td>Healthcare Database Design and Management</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 325</td>
<td>Information Security I</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 370</td>
<td>Data Analysis and Visualization for the Information Professional</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 375</td>
<td>Multimedia Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 685</td>
<td>Electronic Publishing and Web Design</td>
<td>3</td>
</tr>
</tbody>
</table>
ELECTRICAL ENGINEERING

Electrical engineers are at the forefront of developing technologies to improve and enhance our society. They are involved with understanding the fundamentals of nature to improve design methods and techniques, as well as applying their creativity to solving challenging problems. Electrical engineers design and analyze systems for supplying electric power; navigation systems for automobiles, aircraft, and spacecraft; audio and visual communication systems; and systems for information processing and computing.

The major in electrical engineering provides the undergraduate student with a broad understanding of the many areas within the field of electrical engineering. At the same time, the curriculum provides a choice of technical electives designed to strengthen the student in a chosen area of specialization.

Mission Statement

The Department of Electrical Engineering is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

Programs

- Electrical Engineering, BSE (p. 711)
- Electrical Engineering, Minor (p. 715)

Electrical Engineering Courses

ELECENG 101 Fundamentals of Electrical Engineering
3 cr. Undergraduate.
Principles of electrical engineering including intro to fundamental electrical quantities and circuit analysis. Lab with reinforcing experiments, introduction to electrical test equipment, computer simulation techniques, and team project.
Prerequisites: Math 116(C).
Course Rules: Counts as repeat of ElecEng 299 with same topic.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ELECENG 150 Electronic Technology in the World Around Us
3 cr. Undergraduate.
An introductory course that explains the modern technology affecting our everyday life. Topics include: digital communication, satellites, television, stereo system, computer, radar, microwaves, lasers.
Prerequisites: none.
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ELECENG 234 Analytical Methods in Engineering
4 cr. Undergraduate.
Prerequisites: Grade of C or better in Math 232(P).
Current Offerings: http://uwm.edu/schedule

ELECENG 299 Topics in Electrical Engineering:
1-3 cr. Undergraduate.
Work on new material in electrical engineering. Section title and credits announced whenever course is offered.
Prerequisites: specific courses dependent on topic.
Course Rules: May be retaken w/chg in topic to max of 6 cr max.
Last Taught: Fall 2011, Fall 2010, Fall 2005, Fall 1998.
Current Offerings: http://uwm.edu/schedule

ELECENG 301 Electrical Circuits I
3 cr. Undergraduate.
Circuit laws and analysis, resistive circuits, energy storage, AC circuits and power, three-phase circuits, computer-aided analysis.
Prerequisites: Physics 210(C) or 220(C).
Current Offerings: http://uwm.edu/schedule

ELECENG 305 Electrical Circuits II
4 cr. Undergraduate.
Transformers, transient response, network functions, s-domain, response, filters, fourier analysis, two-ports. 3 hr Lec/2 hr Lab.
Prerequisites: C or better in ElecEng 234(P); ElecEng 301(P).
Current Offerings: http://uwm.edu/schedule

ELECENG 306 Introduction to Electrical Engineering
4 cr. Undergraduate.
An introduction to electrical circuits with laboratory. Topics include dc and ac circuits, signal transients, motors, transformers and operational amplifiers.
Prerequisites: Physics 210(P); ElecEng 234(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ELECENG 310 Signals and Systems
3 cr. Undergraduate.
Analysis techniques for signals and systems in both continuous and discrete time. Signal representation, including fourier and laplace transforms; system definitions and properties.
Prerequisites: ElecEng 305(C).
Current Offerings: http://uwm.edu/schedule

ELECENG 330 Electronics I
4 cr. Undergraduate.
Op-amps, diodes, bipolar junction transistors, mos field effect circuit applications.
Prerequisites: ElecEng 305(C).
Course Rules: Counts as repeat of ElecEng 331.
Current Offerings: http://uwm.edu/schedule

ELECENG 335 Electronics II
4 cr. Undergraduate.
CMOS Logic Gates, Differential and multistage amplifiers, IC techniques, frequency response.
Prerequisites: ElecEng 330(P), 310(C).
Course Rules: Counts as repeat of ElecEng 332.
Current Offerings: http://uwm.edu/schedule
**ELECENG 354 Digital Logic**
3 cr. Undergraduate.
Number systems and binary codes; Boolean Algebra and basic results; switching functions; minimization techniques; analysis and design of combinational and sequential logic circuits.
**Prerequisites:** CompSci 240(P) or 250(201)(P).
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 361 Electromagnetic Fields**
3 cr. Undergraduate.
Principles of electrostatics and electromagnetics; laws of fields; resistance, inductance, and capacitance; dielectrics; energy storage; Maxwell's field equation.
**Prerequisites:** grade C or better in Physics 210(P) & 215(P) or Physics 220(P); ElecEng 234(P); grade C or better in Math 233(P).
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 362 Electromechanical Energy Conversion**
4 cr. Undergraduate.
Principles of electrical and electromechanical energy conversion; transformers, polyphase induction and synchronous machines, d.c. machines, single phase motors, including design parameters and testing; with lab (3 hr lec recitation & 2 hr lab per week).
**Prerequisites:** ElecEng 305(P) & ElecEng 361(P).
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 367 Introduction to Microprocessors**
4 cr. Undergraduate.
Fundamentals of microprocessors, including assembly language programming, hardware design, interfacing peripherals and programmable I/O devices, and social/ethical issues in engineering design and practice. Lab.
**Prerequisites:** CompSci 240(P) or 250(201)(P); & C or better in ElecEng 354(P).
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 410 Digital Signal Processing**
3 cr. Undergraduate/Graduate.
Spectral computation including DFT and FFT, sampling of continuous signals, digital filter design including FIR and IIR filters.
**Prerequisites:** jr st, ElecEng 310(P).
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 420 Random Signals and Systems**
3 cr. Undergraduate/Graduate.
Fundamental probability and random process theory, power spectral density. Linear systems and random signals, auto- and cross-correlation, optimum MSE filter design.
**Prerequisites:** jr st, ElecEng 310(P); or grad st.
**General Education Requirements:** QLB
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 421 Communication Systems**
3 cr. Undergraduate/Graduate.
Basic concepts of information; modulation, transmission and demodulation; presentation of information; practical communication systems.
**Prerequisites:** jr st; ElecEng 335(C).
**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2010.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 430 Energy Modeling**
3 cr. Undergraduate/Graduate.
Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.
**Prerequisites:** jr st; or cons instr.
**Course Rules:** Jointly offered with and counts are repeat of MechEng 430.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 436 Introduction to Medical Instrumentation**
3 cr. Undergraduate/Graduate.
Biopotential signals and electrodes; Biopotential Amplifiers and Signal Processing; Sensors, Detectors, and Sources; Electrical Safety; Specifications; Error Analysis; Device Approval Process.
**Prerequisites:** jr st; ElecEng 305(P) or equiv.
**Last Taught:** Spring 2016, Spring 2012, Fall 2010, Fall 2008.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 437 Introduction to Biomedical Imaging**
3 cr. Undergraduate/Graduate.
Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.
**Prerequisites:** sr st; ElecEng 310(P) or equiv.
**Last Taught:** Fall 2017, Fall 2014, Fall 2013, Fall 2011.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 439 Introduction to Biomedical Optics**
3 cr. Undergraduate/Graduate.
**Prerequisites:** jr st; ElecEng 310(P) & 361(P).
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 451 Introduction to VLSI Design**
3 cr. Undergraduate/Graduate.
Introduction to design of VLSI circuits. Ic fundamentals including: energy band diagrams, transistor optimization, design approaches including both customs and semi-custom.
**Prerequisites:** jr st; ElecEng 330(P), 354(P).
**Last Taught:** Fall 2017, Fall 2015, Fall 2014, Fall 2013.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ELECENG 457 Digital Logic Laboratory**
3 cr. Undergraduate/Graduate.
Digital design using a hardware description language and FPGAs. Topics include VHDL, Design Methodologies, Finite State Machines, Multiple clock domains, Timing Analysis, Simulation and Verification.
**Prerequisites:** jr st, ElecEng 354(P).
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
ELECENG 458 Computer Architecture
3 cr. Undergraduate/Graduate.
Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures.
Prerequisites: jr st; ElecEng 354(P), C or better in CompSci 315(P) or ElecEng 367(P).
Course Rules: Jointly offered with & counts as repeat of CompSci 458.
Current Offerings: http://uwm.edu/schedule

ELECENG 461 Microwave Engineering
3 cr. Undergraduate/Graduate.
Review from electromagnetics, transmission lines and waveguides; impedance matching, passive components, stripline and microstrip line circuits, dielectric waveguide, laboratory experiments, industrial and biomedical applications.
Prerequisites: jr st; ElecEng 361(P) or equiv.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ELECENG 462 Antenna Theory
3 cr. Undergraduate/Graduate.
Analysis and design of antennas: antenna fundamentals; wire antennas; dipole, monopole, and loop antennas; antenna arrays; aperture antennas; horn, slot, and parabolic dish antennas.
Prerequisites: jr st; ElecEng 361(P).
Last Taught: Spring 2015, Fall 2013, Spring 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ELECENG 464 Fundamentals of Photonics
3 cr. Undergraduate/Graduate.
Fundamentals of ray, electromagnetic, and beam optics; polarization and polarization-based devices; optics of layered media; and guided-wave optics, including optical fibers.
Prerequisites: jr st; ElecEng 361(P); or grad st.
Last Taught: Fall 2015, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ELECENG 465 Broadband Optical Networks
3 cr. Undergraduate/Graduate.
Multichannel lightwave systems based on wavelength-division, time-division, and subcarrier multiplexing; optical devices and coding techniques for implementing optical networks.
Prerequisites: jr st; ElecEng 305(P) & 361(P); or grad st.
Course Rules: Counts as repeat of ElecEng 490(690) w/same topic.
Current Offerings: http://uwm.edu/schedule

ELECENG 471 Electric Power Systems
3 cr. Undergraduate/Graduate.
Elements of a typical power system. Per-unit quantities; load flow study; economic dispatch; symmetrical components; fault study; system protection; stability.
Prerequisites: jr st; ElecEng 362(C).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ELECENG 472 Introduction to Wind Energy
3 cr. Undergraduate/Graduate.
Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.
Prerequisites: jr st; or cons instr.
Course Rules: MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ELECENG 474 Introduction to Control Systems
4 cr. Undergraduate/Graduate.
Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.
Prerequisites: jr st; ElecEng 310(P), CompSci 240 (P); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ELECENG 482 Introduction to Nanoelectronics
3 cr. Undergraduate/Graduate.
Wave properties of electrons, diffraction, Schrödinger's equation, quantum confinement, band theory, tunnel junctions, Coulomb blockade, quantum dots and wires, quantum conductance and ballistic transport.
Prerequisites: jr st; ElecEng 330(C), ElecEng 361(C).
Last Taught: Fall 2016, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ELECENG 490 Topics in Electrical Engineering:
1-3 cr. Undergraduate/Graduate.
Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ELECENG 541 Integrated Circuits and Systems
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; ElecEng 330(P).
Current Offerings: http://uwm.edu/schedule

ELECENG 545 FPGA Embedded CPUs & Firmware Development
3 cr. Undergraduate/Graduate.
Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices.
Prerequisites: jr st; ElecEng 367(P) & 457(P).
Course Rules: Jointly offered with & counts as repeat of ElecEng 545.
Last Taught: Spring 2018, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
**ELECENG 562 Telecommunication Circuits**  
3 cr. Undergraduate/Graduate.  
Radio frequency communication systems, terrestrial and satellite communication systems, mixers, oscillators, filters, design considerations for receivers and transmitters.  
**Prerequisites:** sr st; ElecEng 330(P).  
**Last Taught:** Fall 2011, Spring 2010, Spring 2008, Spring 2006.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 565 Optical Communication**  
3 cr. Undergraduate/Graduate.  
Overview of communication systems, light and electromagnetic waves, optical fibers, lasers, led, photodetectors, receivers, optical fiber communication systems.  
**Prerequisites:** sr st; ElecEng 361(P), & 330(P) or 465(P).  
**Last Taught:** Spring 2016, Spring 2015, Spring 2013, Fall 2011.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 566 Applications of Digital Signal Processing**  
3 cr. Undergraduate/Graduate.  
Introduction to the use of modern digital signal processor (DSP) units in DSP applications such as digital filtering and speech signal processing.  
**Prerequisites:** ElecEng 310(P), 367(P).  
**Course Rules:** Counts as repeat of ElecEng 490 and 890 w/similar topic;  
**Last Taught:** Spring 2018.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 572 Power Electronics**  
3 cr. Undergraduate/Graduate.  
Power diodes and transistors; static converters; D.C. power supplies; power transistor circuits; SCR's; classical and modern forced-commutation inverters; choppers; cycloconverters, applications in power.  
**Prerequisites:** sr st; ElecEng 335(C).  
**Last Taught:** Spring 2018, Fall 2017, Fall 2016, Fall 2015.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 574 Intermediate Control Systems**  
3 cr. Undergraduate/Graduate.  
State space; frequency domain methods of modelling, analysis and design of control systems; digital control; and multivariate systems.  
**Prerequisites:** sr st; MechEng 474(P) or ElecEng 474(402)(P); or grad st.  
**Course Rules:** ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 478(ER).  
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 575 Analysis of Electric Machines and Motor Drives**  
3 cr. Undergraduate/Graduate.  
Reference frame analysis, computer simulation, permanent magnet synchronous machines, induction machines, power electronic inverters, pulsewidth modulation, vector control.  
**Prerequisites:** jr st, ElecEng 330(P) & 362(P).  
**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 588 Fundamentals of Nanotechnology**  
3 cr. Undergraduate/Graduate.  
Nanofabrication, self-assembly, principles of scanning tunneling/atomic force microscopy, operators, energy quantization; density of states, quantum dots, nanowires, carbon nanotubes: electronic properties and applications.  
**Prerequisites:** sr st; non-ElecEng majors; ElecEng 361(P) or equiv.  
**Last Taught:** Fall 2014, Fall 2012, Fall 2009, Fall 2008.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 595 Capstone Design Project**  
4 cr. Undergraduate.  
Team project in simulated industrial environment. Each team develops solutions to complex real world design problems and reports results in professional writing and oral presentation.  
**Prerequisites:** sr st; ElecEng 335(P), ElecEng 367(P).  
**Course Rules:** Counts as repeat of ElecEng 355.  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 599 Senior Thesis**  
1-3 cr. Undergraduate.  
Independent research under the direction of a faculty member; submission of a written thesis is required. 3 cr total required.  
**Prerequisites:** sr st & cons instr.  
**Course Rules:** May be retaken to max of 3 cr.  
**Last Taught:** Fall 2014, Spring 2014, Spring 1997, Fall 1990.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 699 Independent Study**  
1-3 cr. Undergraduate/Graduate.  
**Prerequisites:** jr st; cons instr.  
**Course Rules:** May be retaken to max of 6 cr toward the undergraduate degree.  
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 700 CEAS Graduate Seminar**  
1-3 cr. Graduate.  
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.  
**Prerequisites:** grad st  
**Course Rules:** Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700, MatlEng 700 & MechEng 700 are jointly offered and count as repeats of one another  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** http://uwm.edu/schedule

**ELECENG 701 Advanced Linear System Analysis**  
3 cr. Graduate.  
Theory and analysis of linear dynamic systems; discrete and continuous state models; linear algebra for dynamic systems; state transition matrix, numerical methods; and applications.  
**Prerequisites:** grad st.  
**Course Rules:** ElecEng 701 & MechEng 701 are jointly offered and count as repeats of one another.  
**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.  
**Current Offerings:** http://uwm.edu/schedule
ELECENG 710 Artificial Intelligence
3 cr. Graduate.
Programming, search techniques game playing, knowledge representation, knowledge acquisition, expert systems. Selected topics from learning. Natural language understanding, vision and robotics.
Prerequisites: grad st; CompSci 252 & 535.
Course Rules: Not open to students who have cr in CompSci 710.
Last Taught: Spring 2016, Fall 2014, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ELECENG 711 Introduction to Machine Learning
3 cr. Graduate.
Introduction to machine learning techniques and applications, including optimal classification, regression, support vector machines, boosting, deep learning, and clustering.
Prerequisites: grad st
Course Rules: Not open to students who have cr in CompSci 711 which is identical to Eleceng 711.
Last Taught: Fall 2017, Spring 2016, Fall 2013, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ELECENG 712 Image Processing
3 cr. Graduate.
This course covers the materials required to process and enhance photographic images, remote sensor multispatial scanner data and others. Topics include transform techniques, recorders, discriminate function, and associated hardware.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ELECENG 713 Computer Vision
3 cr. Graduate.
Fundamental issues and current research in computer vision. Topics in early or low-level vision, intermediate vision or perceptual organization, and high-level vision or object recognition.
Prerequisites: grad st; ElecEng 410(P) or cons instr.
Course Rules: Jointly offered w/ and counts as a repeat of CompSci 713.
Last Taught: Fall 2005.
Current Offerings: http://uwm.edu/schedule

ELECENG 716 Tomography: Imaging and Image Reconstruction
3 cr. Graduate.
In-depth examination of the fundamentals of tomographic imaging and tomographic image reconstruction algorithms.
Prerequisites: grad st; ElecEng 410 (P) & ElecEng 420 (P)
Current Offerings: http://uwm.edu/schedule

ELECENG 717 Tomography: Image Quality and Artifact Correction
3 cr. Graduate.
In depth study of the factors affecting tomographic image quality. State-of-the-art techniques and practices for artifact correction.
Prerequisites: grad st; ElecEng 716 (P)
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

ELECENG 718 Nonlinear Control Systems
3 cr. Graduate.
Advanced concepts and methodologies in modeling and design of nonlinear control systems. Lyapunov theory; describing functions; variable structure control.
Prerequisites: grad st; ElecEng or MechEng474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 718 & MechEng718 are jointly offered and count as repeats of one another. Not open for credit to students w/ cr in MechEng 778.
Current Offerings: http://uwm.edu/schedule

ELECENG 721 Digital Communications
3 cr. Graduate.
Fundamentals of design and analysis of digital communication systems in the presence of noise; application of satellite, phone, and computer communication systems.
Prerequisites: grad st, ElecEng 421 or cons instr.
Last Taught: Spring 2011, Fall 2009, Fall 2007, Fall 2004.
Current Offerings: http://uwm.edu/schedule

ELECENG 733 Sensors and Systems
3 cr. Graduate.
Physical principles and working of sensors, interfacing, and sensor networks.
Prerequisites: grad st; ElecEng 305 or cons. instr.; Jointly offered with & counts as repeat of BME 733 & MechEng 733.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

ELECENG 737 Medical Imaging Signals and Systems
3 cr. Graduate.
Medical imaging physics; physical parameters of imaging systems; imaging system models; physical measurements; image reconstruction; image characteristics; biomedical applications.
Prerequisites: grad st; ElecEng 310(P) and Physics 210(P), or cons instr.
Last Taught: Fall 2009.
Current Offerings: http://uwm.edu/schedule

ELECENG 741 Electromagnetic Fields and Waves
3 cr. Graduate.
Propagation, radiation and scattering of electromagnetic waves and their applications in electrical engineering.
Prerequisites: grad st; ElecEng 361 or equiv.
Last Taught: Fall 2013, Fall 2010, Fall 2009, Fall 2005.
Current Offerings: http://uwm.edu/schedule

ELECENG 742 Electromagnetic Wave Theory
3 cr. Graduate.
Electromagnetics of layered media and open waveguides; surface waves, radiation modes, and plasmons; asymptotic methods; Dyadic green’s functions; integral equation methods
Prerequisites: Grad st; ElecEng 361(P).
Current Offerings: http://uwm.edu/schedule
ELECENG 755 Information and Coding Theory
3 cr. Graduate.
Information measures, entropy, source coding, shannon's theorems, channel capacity, error correcting codes, linear codes, convolutional codes, arithmetic codes, encoding and decoding algorithms.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ELECENG 758 Advanced Computer Architecture
3 cr. Graduate.
Advanced topics in computer architecture including pipeline processing, multiple and parallel processing systems, performance enhancement issues and vlsi computing structures.
Prerequisites: grad st; CompSci 458 or ElecEng 458.
Course Rules: Not open for cr to students with cr in CompSci 758, which is identical to ElecEng 758.
Last Taught: Fall 2013.
Current Offerings: http://uwm.edu/schedule

ELECENG 760 Computer Systems Performance Evaluation
3 cr. Graduate.
Performance measurement and tools, workload characterization, markov models, queueing theory, simulation, benchmarks, data analysis, parallel systems performance analysis.
Prerequisites: grad st; & CompSci 458(P) or ElecEng 458(P).
Course Rules: Not open to students who have cr in CompSci 760, which is the same as ElecEng 760.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Spring 2013.
Current Offerings: http://uwm.edu/schedule

ELECENG 762 Fault-Tolerant Computing
3 cr. Graduate.
Faults in digital circuits, fault detection, fault location, system reconfiguration or repair, system recovery, design for testability, self-checking circuits, fault-tolerant interconnection networks, systems level fault-diagnosis, fault-tolerant software.
Prerequisites: grad st; ElecEng 354.
Course Rules: Not open to students with cr in CompSci 762, which is identical to ElecEng 762.
Current Offerings: http://uwm.edu/schedule

ELECENG 765 Introduction to Fourier Optics and Optical Signal Processing
3 cr. Graduate.
Two dimensional linear systems, scalar diffraction theory, imaging properties of lenses, optical imaging systems, spatial filtering, wavefront reconstruction.
Prerequisites: grad st; ElecEng 310(P) & 361(P)
Current Offerings: http://uwm.edu/schedule

ELECENG 766 Introduction to Nonlinear Optics
3 cr. Graduate.
Characteristics and efficiency of various nonlinear optical processes that find applications in communications, signal processing and computing. Topics include optical switching devices, mixers and solitons.
Prerequisites: grad st; ElecEng 361(P).
Current Offerings: http://uwm.edu/schedule

ELECENG 781 Advanced Synchronous Machinery
3 cr. Graduate.
Machine construction, direct and quadrature axis reactances, steady state performance, unbalanced operating conditions, transient performance, motor starting, standards.
Prerequisites: ElecEng 362.
Current Offerings: http://uwm.edu/schedule

ELECENG 810 Advanced Digital Signal Processing
3 cr. Graduate.
Prediction and optimum filters; lattice structures; adaptive filters; deconvolution techniques, spectrum estimation, applications.
Prerequisites: grad st; ElecEng 410(P).
Last Taught: Spring 2015, Fall 2011, Spring 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ELECENG 816 Optimal Control Theory
3 cr. Graduate.
Analysis and synthesis of discrete and continuous optimal control systems; linear quadratic regulators; dynamic programming and variational methods; applications.
Prerequisites: grad st; ElecEng or MechEng474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 816 & MechEng 816 are jointly offered and count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ELECENG 819 Adaptive Control Theory
3 cr. Graduate.
Adaptive control systems including mathematical foundations, estimation, model reference adaptive control, self tuning regulators, numerical methods, applications.
Prerequisites: grad st; ElecEng or MechEng474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 819 & MechEng 819 are jointly offered and count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ELECENG 817 Computer Analysis of Electric Power Systems
3 cr. Graduate.
Graph theory, matrix algebra and numerical analysis applied to computer solution of power system problems; mathematical models; algorithms and solution techniques for load flow and fault studies.
Prerequisites: grad st & ElecEng 471.
Current Offerings: http://uwm.edu/schedule

ELECENG 820 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, IndEng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ELECENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.

Course Rules: Fee for 1 cr assessed.
Last Taught: Summer 2017, Spring 2017, Summer 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ELECENG 890 Special Topics:
3 cr. Graduate.
Lectures on special topics in electrical engineering. Variable content course. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.

Course Rules: May be repeated w/ chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ELECENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

ELECENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog comm.
Current Offerings: http://uwm.edu/schedule

ELECENG 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st & cons instr.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tr>
<td>Brian Armstrong</td>
<td>Professor</td>
<td>PhD</td>
<td>Stanford University</td>
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<tr>
<td>John T. Boyland</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Christine T. Cheng</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
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<td>Robert Cuzner</td>
<td>Assistant Professor</td>
<td>PhD</td>
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<td>Adrian Dumitrescu</td>
<td>Professor</td>
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<td>Rutgers, The State University of New Jersey</td>
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<td>Mukul Goyal</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
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<tr>
<td>George Hanson</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Michigan State University</td>
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<td>Seyed Hosseini</td>
<td>Professor</td>
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<td>Yi Hu</td>
<td>Associate Professor</td>
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<td>University of Texas at Dallas</td>
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<tr>
<td>Charles E. Kahn Jr.</td>
<td>Adjunct Professor</td>
<td>MD</td>
<td>University of Illinois at Chicago</td>
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<td>Nikolai A. Kouklin</td>
<td>Associate Professor</td>
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<td>University of Nebraska - Lincoln</td>
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<td>Robert J. Krueger</td>
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<td>Chiu T. Law</td>
<td>Associate Professor</td>
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<td>Amol D. Mali</td>
<td>Associate Professor</td>
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<td>Arizona State University</td>
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<td>David McClanahan</td>
<td>Faculty Associate</td>
<td>MSEE</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>Susan McRoy</td>
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<td>Devendra K. Misra</td>
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<td>Ethan V. Munson</td>
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<td>Adel Nasiri</td>
<td>Professor</td>
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<td>Illinois Institute of Technology</td>
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<td>Ramin Pashaie</td>
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<td>Mahsa Ranji</td>
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<td>Ali Reza</td>
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<td>Jayson Rock</td>
<td>Senior Lecturer</td>
<td>MS</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>Ichiro Suzuki</td>
<td>Professor</td>
<td>PhD</td>
<td>Osaka University, Japan</td>
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<td>Lingfeng Wang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
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<td>Weizhong Wang</td>
<td>Associate Professor</td>
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<td>University of Maryland, College Park</td>
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<td>Guangwu Xu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University at Buffalo, SUNY</td>
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<td>David C. Yu</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Oklahoma</td>
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<td>Zeyun Yu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>The Ohio State University</td>
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Electrical Engineering, BSE

Electrical engineering graduates pursue careers in fields such as energy generation and transmission, renewable energy, power electronics, bio-imaging and devices, signal and image processing, communications, optical and photonic circuits and devices, controls and automation, and many other areas.

Concentrations
Several possible technical elective course groupings are listed below, as an aid in choosing technical electives. Electrical engineering students do not need to follow any particular grouping – the listings described below are provided as a guide only. In the long term, students will be better prepared for an engineering career having a broad exposure to different technical areas, rather than a narrow focus in one specialized area.

- Power Electronics and Power Systems
- Optics
- Nanotechnology/Nanoengineering
- Microwave/Radio-Frequency Engineering
- Electronics
- Controls
- Computer Systems
- Communications and Signal Processing
- Biomedical Imaging
- Embedded Systems

Research
Work with faculty (http://uwm.edu/engineering/classification/faculty/electrical-engineering) engaged in leading-edge research in areas such as:

- Optics and photonics in neuroscience
- Renewable energy
- Machine learning
- Artificial intelligence
- Data visualization
- Electric vehicles, aircraft and ships

Accreditation
The electrical engineering program is accredited by the Engineering Accreditation Commission of ABET, 415 N. Charles Street, Baltimore, MD 21201, (410) 347-7700.

New Freshmen
Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to the First-Year Program. Admission directly to the major is selective.

Transfer Students
Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or the Transfer Transition Program based on the number of transfer credits and GPA.

Admission to the Major
Students admitted to the First-Year Program or Transfer Transition Program (Engineering-Intended or Computer Science-Intended) may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

First-Year students have a maximum of three semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Transfer Transition students have a maximum of two semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Placement Testing
Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in chemistry, English, and math may not be required to take placement tests. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count toward the degree program. Entering students are urged to take their placement exams when scheduled. All placement exams must be completed before beginning coursework in the subject area. Students who place into precalculus math courses may be asked to participate in an online summer bridge program.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.
Electrical Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in electrical engineering is 126. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Admission to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 240</td>
<td>Introduction to Engineering Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 241</td>
<td>C Programming for Embedded Systems</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELECENG 101</td>
<td>Fundamentals of Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 305</td>
<td>Electrical Circuits II</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 310</td>
<td>Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 330</td>
<td>Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 335</td>
<td>Electronics II</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 354</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 361</td>
<td>Electromagnetic Fields</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 362</td>
<td>Electromechanical Energy Conversion</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 367</td>
<td>Introduction to Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 420</td>
<td>Random Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 595</td>
<td>Capstone Design Project</td>
<td>4</td>
</tr>
</tbody>
</table>

Mathematics Requirement

Select one of the following Calculus sequences: 1

Sequence 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>10-12</td>
</tr>
<tr>
<td>&amp; MATH 232</td>
<td>and Calculus and Analytic Geometry II</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 233</td>
<td>and Calculus and Analytic Geometry III</td>
<td></td>
</tr>
</tbody>
</table>

Sequence 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 222</td>
<td>and Honors Calculus II</td>
<td></td>
</tr>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

Chemistry Requirement

CHEM 105 General Chemistry for Engineering 5

or CHEM 102 General Chemistry

Physics Requirement

Select one of the following options:

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYSICS 220</td>
<td>and Lab Physics I: Calculus-Based, Studio</td>
<td></td>
</tr>
</tbody>
</table>

Option 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYSICS 214</td>
<td>and Lab Physics I (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYSICS 215</td>
<td>and Lab Physics II (Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>

Technical Electives

The electrical engineering program requires a total of 24 credits of technical electives, chosen as follows.

Group A Technical Electives

Select at least 15 credits from the following list. All non-required Electrical Engineering courses numbered 400-699 are Group A Technical Electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 477</td>
<td>Purchasing and Supply Management</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 530</td>
<td>Computer Networks Laboratory</td>
<td></td>
</tr>
<tr>
<td>EAS 1</td>
<td>Engineering Co-op Work Period</td>
<td></td>
</tr>
<tr>
<td>EAS 497</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>ELECENG 410</td>
<td>Digital Signal Processing</td>
<td></td>
</tr>
<tr>
<td>ELECENG 421</td>
<td>Communication Systems</td>
<td></td>
</tr>
<tr>
<td>ELECENG 436</td>
<td>Introduction to Medical Instrumentation</td>
<td></td>
</tr>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
<td></td>
</tr>
<tr>
<td>ELECENG 451</td>
<td>Introduction to VLSI Design</td>
<td></td>
</tr>
<tr>
<td>ELECENG 457</td>
<td>Digital Logic Laboratory</td>
<td></td>
</tr>
<tr>
<td>ELECENG 458</td>
<td>Computer Architecture</td>
<td></td>
</tr>
</tbody>
</table>

GER Distribution Requirement

Arts 3

Humanities 3

Social Science 6

ENGLISH 310 Writing, Speaking, and Technoscience in the 21st Century 3

Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement

Free Electives

Select 3 credits

English Composition Requirement

Satisfied by one of the following: 0-6

Earning a satisfactory score on the English placement test; or
Earning a grade of C or higher in ENGLISH 102; or
Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course; or

Foreign Language Requirement

Satisfied by one of the following: 0-8

Two years of a single foreign language in high school;
Two semesters of a single foreign language in college; or
Demonstrate ability by examination.

1 Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, mellencamp hall, room b28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

English Composition Requirement

Satisfied by one of the following: 0-6

Earning a satisfactory score on the English placement test; or
Earning a grade of C or higher in ENGLISH 102; or
Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course; or

Foreign Language Requirement

Satisfied by one of the following: 0-8

Two years of a single foreign language in high school;
Two semesters of a single foreign language in college; or
Demonstrate ability by examination.

1 Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, mellencamp hall, room b28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.
..., as appropriate. Advancement to major status is required for graduation. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student’s undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor’s degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor’s degree.

Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four
semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation.

Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

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**Program Educational Objectives**

The educational objectives of the undergraduate Electrical Engineering Program are:

1. Graduates are creative problem solvers who provide and communicate solutions to challenging problems by applying fundamental mathematical, scientific, and engineering principles, while giving special considerations to social issues, human factors, and ethical issues.
2. Graduates solve problems as members of a team, and will exhibit high levels of professionalism in their work.
3. Graduates are successfully engaged in careers in electrical engineering and related fields that support the regional and national economy.
4. Graduates are engaged in continued professional development.

**Honors in the College of Engineering and Applied Science**

**Dean’s Honor List**

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Joint Programs with Other Campuses**

**Pre-engineering**

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

**Dual Degree Programs**

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after
three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

Electrical Engineering, Minor
The minor in electrical engineering is designed for students in engineering and science majors. The minor is not available to electrical engineering majors.

Requirements
It requires students to take a minimum of 21 credits, of which not more than 6 credits overlap with the student’s major. Students must attain a minimum GPA of 2.0 in the minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 15 credits from the following:</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td></td>
</tr>
<tr>
<td>ELECENG 305</td>
<td>Electrical Circuits II</td>
<td></td>
</tr>
<tr>
<td>ELECENG 310</td>
<td>Signals and Systems</td>
<td></td>
</tr>
<tr>
<td>ELECENG 330</td>
<td>Electronics I</td>
<td></td>
</tr>
<tr>
<td>ELECENG 335</td>
<td>Electronics II</td>
<td></td>
</tr>
<tr>
<td>ELECENG 354</td>
<td>Digital Logic</td>
<td></td>
</tr>
<tr>
<td>ELECENG 361</td>
<td>Electromagnetic Fields</td>
<td></td>
</tr>
<tr>
<td>ELECENG 362</td>
<td>Electromechanical Energy Conversion</td>
<td></td>
</tr>
<tr>
<td>ELECENG 367</td>
<td>Introduction to Microprocessors</td>
<td></td>
</tr>
<tr>
<td>ELECENG 595</td>
<td>Capstone Design Project</td>
<td></td>
</tr>
</tbody>
</table>

Electives
No more than 6 credits from the following list may be counted towards the minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 536</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 410</td>
<td>Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 420</td>
<td>Random Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 421</td>
<td>Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 436</td>
<td>Introduction to Medical Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 439</td>
<td>Introduction to Biomedical Optics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 451</td>
<td>Introduction to VLSI Design</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 457</td>
<td>Digital Logic Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 461</td>
<td>Microwave Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 462</td>
<td>Antenna Theory</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 465</td>
<td>Broadband Optical Networks</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 471</td>
<td>Electric Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 474</td>
<td>Introduction to Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>MECHENG 490</td>
<td>Topics in Mechanical Engineering:</td>
<td>1-3</td>
</tr>
<tr>
<td>ELECENG 541</td>
<td>Integrated Circuits and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 562</td>
<td>Telecommunication Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 565</td>
<td>Optical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 572</td>
<td>Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 574</td>
<td>Intermediate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 481</td>
<td>Electronic Materials</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 321</td>
<td>Basic Heat Transfer</td>
<td>4</td>
</tr>
</tbody>
</table>

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667, EMS Room E386
ENGINEERING AND APPLIED SCIENCE (GRADUATE PROGRAMS)

With the exception of the Master of Science in Computer Science, the graduate programs offered by the College of Engineering and Applied Science are college-wide programs, and the responsibility for these programs is vested in the graduate faculty of the College operating via an interdepartmental committee, the Graduate Program Subcommittee (GPSC).

The engineering master's program offered by the College is the Master of Science in Engineering.

The program provides breadth by requiring a program of coursework and depth through participation in research or design synthesis. The research or design synthesis effort is documented in a thesis that is presented and defended by the student at the final degree examination. For those with prior engineering/scientific work experience which includes appropriate report writing, the program offers a non-thesis option which requires additional coursework in lieu of thesis.

Since the program does not require a rigid set of courses, each student, in consultation with faculty, has the flexibility to put together a program of study which is compatible with the student's career objectives. The flexibility of customizing the program of study makes the Master of Science in Engineering Program suitable as a terminal degree as well as a stepping stone for doctoral level study.

Related Certificates
- Certificate in Advanced Computational Imaging (p. 717)
- Certificate in Energy Engineering (p. 718)
- Certificate in Ergonomics (p. 743)

Programs
- Advanced Computational Imaging, Graduate Certificate (p. 717)
- Energy Engineering, Graduate Certificate (p. 718)
- Engineering, MS (p. 738)
- Engineering, MS/Urban Planning, MUP (p. 740)
- Engineering, MS: Biomedical Engineering (p. 719)
- Engineering, MS: Civil Engineering (p. 721)
- Engineering, MS: Electrical and Computer Engineering (p. 722)
- Engineering, MS: Energy Engineering (p. 724)
- Engineering, MS: Engineering Management (p. 726)
- Engineering, MS: Engineering Mechanics (p. 727)
- Engineering, MS: Industrial and Systems Engineering (p. 729)
- Engineering, MS: Manufacturing Engineering (p. 731)
- Engineering, MS: Materials Engineering (p. 733)
- Engineering, MS: Mechanical Engineering (p. 735)
- Engineering, MS: Occupational Biomechanics/Ergonomics (p. 736)
- Engineering, PhD (p. 741)
- Ergonomics, Graduate Certificate (p. 743)

Engineering and Applied Science Courses

EAS 1 Engineering Co-op Work Period
1 cr. Undergraduate.
One semester work period in an industrial environment.
Prerequisites: prior cons co-op dir.
Course Rules: Cr/No cr only. May be retaken but only 3 cr count toward graduation.
Current Offerings: http://uwm.edu/schedule

EAS 100 CEAS Freshman Orientation
1 cr. Undergraduate.
An introduction to problem solving in engineering and computer science.
Prerequisites: none.
Course Rules: Credit/No Credit grading option only.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

EAS 200 Professional Seminar
1 cr. Undergraduate.
Professional orientation and career planning. Current issues in the profession.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EAS 290 Topics in Engineering and Applied Science:
1-3 cr. Undergraduate.
Lectures on new introductory material in engineering and applied science. Variable-content course.
Prerequisites: specified in semester Schedule whenever required for topic.
Course Rules: May be retaken with change in topic.
Current Offerings: http://uwm.edu/schedule

EAS 297 Study Abroad:
1-5 cr. Undergraduate.
Designed to enroll students in UWM sponsored program. Course work, content, and credits determined at the time of offering.
Prerequisites: acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.
Course Rules: Retakable with change in topic to 12 cr max.
Current Offerings: http://uwm.edu/schedule

EAS 299 Independent Study:
1-3 cr. Undergraduate.
Independent study on a topic of choice. Credit hours to be arranged between student and staff on an individual basis.
Prerequisites: cons instr.
Course Rules: May be retaken for degree cr.
Current Offerings: http://uwm.edu/schedule

EAS 350 Senior Leadership Seminar
1 cr. Undergraduate.
Elements of historical and modern social and professional leadership, preparing for a leadership position in industry, leadership and entrepreneurship, engineering management techniques.
Prerequisites: sr st.
Current Offerings: http://uwm.edu/schedule
Advanced Computational Imaging, Graduate Certificate

Modern medical imaging systems are complex, high-technology devices. Engineers designing and developing medical imaging systems must have knowledge and understanding around concepts not traditionally available in bachelor’s degree programs in engineering or computing. Such concepts include:

- Mathematical foundations of tomography (images constructed from a series of “slices”).
- Image artifacts that distort the images and how to correct them.
- Hardware and software for the embedded computing systems that are used to implement image construction and correction.

This program fills a need to prepare engineers with the knowledge, understanding, and abilities essential for a successful career in modern medical imaging systems.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students must have:

1. A baccalaureate degree.
2. A minimum 2.75 cumulative undergraduate grade point average.

Application

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

Credits and Courses

A minimum of 15 credits of which at least 12 credits must be taken at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 782</td>
<td>Physics of Medical Imaging</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 657</td>
<td>Topics in Computer Science: (Edison A)</td>
<td></td>
</tr>
<tr>
<td>ELECENG 490</td>
<td>Topics in Electrical Engineering: (Edison A)</td>
<td></td>
</tr>
<tr>
<td>ELECENG 716</td>
<td>Tomography: Imaging and Image Reconstruction</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 717</td>
<td>Tomography: Image Quality and Artifact Correction</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/COMPSCI 545</td>
<td>FPGA Embedded CPUs &amp; Firmware Development</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 729</td>
<td>Real-Time Operating Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 15

1 Students who have taken ELECENG 437 or ELECENG 545/COMPSCI 545 or their equivalents as an undergraduate may substitute a relevant graduate course with the approval of the Certificate program. The program maintains a list of suggested substitute courses. The current list is:

- ELECENG 711/COMPSCI 711
- ELECENG 712/COMPSCI 712
- ELECENG 713/COMPSCI 713
- COMPSCI 718
- COMPSCI 758
- COMPSCI 762

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
• All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
• Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:

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

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

**Energy Engineering, Graduate Certificate**

With the rapid dwindling of energy resources, there is a great demand for workers in various fields to keep themselves abreast of the latest technology in solving and planning for the energy shortage and efficient use of energy. This interdisciplinary Certificate in Energy Engineering Program is open to post-baccalaureate students who are interested in continuing education for career development or gaining experience in the energy area. In particular, the Program will provide basic knowledge on the design of electrical and mechanical devices and systems and yet has adequate flexibility for students to focus on certain areas in energy according to their own discretion in advanced courses.

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
Students must have a baccalaureate degree. A minimum 2.75 cumulative undergraduate grade point average is required.

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

**Credits and Courses**

To obtain the certificate, students are required to complete a minimum of 15 credits from the lists of Groups A and B courses of which at least 12 credits must be taken at UWM.

Students must complete at least two courses from Group A to obtain an Energy Engineering Certificate. Additional electives can be chosen from Group B. At least 6 credits must be 700-level or above. A maximum of 3 credits of independent study may be applied toward the certificate.

**Group A Credits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 471</td>
<td>Electric Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 572</td>
<td>Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 574</td>
<td>Intermediate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 575</td>
<td>Analysis of Electric Machines and Motor Drives</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 432</td>
<td>Internal Combustion Engines</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 434</td>
<td>Air Conditioning System Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 435</td>
<td>Power Plant Theory and Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 436</td>
<td>Solar Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 781</td>
<td>Advanced Synchronous Machinery</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 872</td>
<td>Computer Analysis of Electric Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 890</td>
<td>Special Topics: (Advanced Power Electronics)</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 890</td>
<td>Special Topics: (Automotive Power Systems (New Course))</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 890</td>
<td>Special Topics: (Renewable Energy Systems (New Course))</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 999</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>MECHENG 702</td>
<td>Advanced Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 703</td>
<td>Principles of Combustion</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 710</td>
<td>Advanced Transport Processes</td>
<td>2</td>
</tr>
<tr>
<td>MECHENG 711</td>
<td>Thermal Radiation and Conduction</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 712</td>
<td>Convection Heat and Mass Transfer</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 714</td>
<td>Energy Transport in Microscale Systems</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 721</td>
<td>Fundamentals of Fluid Flow</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 722</td>
<td>Advanced Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 723</td>
<td>Computational Fluid Dynamics and Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 725</td>
<td>Fluid Power and Turbomachinery</td>
<td>2</td>
</tr>
<tr>
<td>MECHENG 999</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Certificate Requirements**

**Transfer Credit**
No more than 20% of the required credits may be transferred from energy-related, graduate-level coursework taken at an institution other than
UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

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

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

Engineering, MS: Biomedical Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an areas of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

• Biomedical Engineering
• Civil Engineering

• Electrical and Computer Engineering
• Energy Engineering
• Engineering Management (admission to this concentration is suspended)
• Engineering Mechanics
• Industrial and Systems Engineering
• Manufacturing Engineering
• Materials Engineering
• Mechanical Engineering
• Occupational Biomechanics/Ergonomics

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission Requirements

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student’s department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students
may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

**Thesis Option**

All students are encouraged to undertake the thesis option. The degree requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of 12 credits in an approved technical program of studies</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of thesis</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absenta provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master’s Program Committee, partially in defense of the thesis.

**Non-Thesis Capstone Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

**Non-Thesis Comprehensive Examination Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master’s Program Committee. Or
2. The student passes a written master’s comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

**Biomedical Engineering Concentration**

A minimum of 15 credits of qualifying graduate courses from the list below. May include up to 3 credits each of BME 990 and BME 999. Also, students must take at least 16 credits of engineering courses.

**Qualifying Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 733</td>
<td>Sensors and Systems</td>
<td>3</td>
</tr>
<tr>
<td>BME 890</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>BME 990</td>
<td>Masters Thesis</td>
<td>1-9</td>
</tr>
<tr>
<td>BME 999</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>COMPSCI/ELECENG 710</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 701</td>
<td>Advanced Linear System Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI/ELECENG 711</td>
<td>Introduction to Machine Learning</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI/ELECENG 712</td>
<td>Image Processing</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 718</td>
<td>Nonlinear Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 737</td>
<td>Medical Imaging Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 765</td>
<td>Introduction to Fourier Optics and Optical Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 810</td>
<td>Advanced Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 715</td>
<td>Numerical Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BMS 765</td>
<td>Molecular Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 701</td>
<td>Advanced Measurement and Instrumentation in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 706</td>
<td>Perspectives on Community &amp; Behavioral Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 709</td>
<td>Public Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 712</td>
<td>Probability and Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 705</td>
<td>Molecular, Cellular, and System Biophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 706</td>
<td>Biophotonics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 782</td>
<td>Physics of Medical Imaging</td>
<td>3</td>
</tr>
</tbody>
</table>

* A maximum of 3 credits of BME 990 or 999 may be included.
Program Requirements

Major Professor as Advisor
The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student’s current advisor.

Program of Study
During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

Master’s Program Committee
The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

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

Engineering, MS: Civil Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an areas of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

Admission Requirements

Application Deadlines
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Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options
Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student’s department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

Thesis Option
All students are encouraged to undertake the thesis option. The degree requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
</tbody>
</table>
Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)  
Select 6 credits of thesis  
Total Credits 30

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master’s Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

Non-Thesis Comprehensive Examination Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master’s Program Committee. Or
2. The student passes a written master’s comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Civil Engineering Concentration

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

Qualifying Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Any Civ Eng courses numbered between 701 and 999, excluding 888 and 998. May include up to 3 credits each of:</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 990</td>
<td>Masters Thesis</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 999</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student’s current advisor.

Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

Master’s Program Committee

The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

Time Limit

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

Engineering, MS: Electrical and Computer Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an areas of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one.

Engineering, MS: Electrical and Computer Engineering
The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

**Credits and Courses**
Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study courses are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

**Thesis and Non-Thesis Options**
Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student’s department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

**Thesis Option**
All students are encouraged to undertake the thesis option. The degree requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of 12 credits in an approved technical program of studies</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of thesis</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>30</strong></td>
<td></td>
</tr>
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</table>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master’s Program Committee, partially in defense of the thesis.

**Non-Thesis Capstone Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>31</strong></td>
<td></td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

**Non-Thesis Comprehensive Examination Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of approved electives</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>
Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)

| Total Credits | 31 |

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master’s Program Committee. Or
2. The student passes a written master’s comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Electrical and Computer Engineering Concentration
A minimum of 15 credits of qualifying graduate courses in Electrical Engineering.

<table>
<thead>
<tr>
<th>Qualifying Courses</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any ElecEng course numbered between 701 and 999, excluding 888 and 998.</td>
<td>Any ElecEng course numbered between 701 and 999, excluding 888 and 998.</td>
<td>Any ElecEng course numbered between 701 and 999, excluding 888 and 998.</td>
<td>Any ElecEng course numbered between 701 and 999, excluding 888 and 998.</td>
</tr>
<tr>
<td>May include up to 3 credits each of:</td>
<td>ELECENG 990 Masters Thesis</td>
<td>1-9</td>
<td></td>
</tr>
<tr>
<td>ELECENG 990 Advanced Independent Study</td>
<td>1-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor
The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student’s current advisor.

Program of Study
During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

Master’s Program Committee
The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

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

Engineering, MS: Energy Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an areas of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

Admission Requirements

Application Deadlines
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Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken.
for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options

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Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Select a minimum of 12 credits in an approved technical program of studies</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Select 9 credits of approved electives</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Select 6 credits of thesis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master’s Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Select 9 credits of approved electives</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

Non-Thesis Comprehensive Examination Option

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Select 9 credits of approved electives</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
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Energy Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Electrical Engineering or Mechanical Engineering.

Qualifying Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHE 425</td>
<td>Aerodynamics of Wind Turbines</td>
<td>3</td>
</tr>
<tr>
<td>MECHE 432</td>
<td>Internal Combustion Engines</td>
<td>3</td>
</tr>
<tr>
<td>MECHE 434</td>
<td>Air Conditioning System Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHE 435</td>
<td>Power Plant Theory and Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHE 436</td>
<td>Solar Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 471</td>
<td>Electric Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELEC/MCHENG 472</td>
<td>Introduction to Wind Energy</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 572</td>
<td>Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELEC/MCHENG 574</td>
<td>Intermediate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 575</td>
<td>Analysis of Electric Machines and Motor Drives</td>
<td>3</td>
</tr>
<tr>
<td>ELEC/MCHENG 701</td>
<td>Advanced Linear System Analysis</td>
<td>3</td>
</tr>
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Major Professor as Advisor
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The student must complete all degree requirements within five years of initial enrollment.

Engineering, MS: Engineering Management

This concentration has been suspended.

Admission Requirements

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</thead>
<tbody>
<tr>
<td>MECHENG 702</td>
<td>Advanced Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 710</td>
<td>Advanced Transport Processes</td>
<td>2</td>
</tr>
<tr>
<td>MECHENG 711</td>
<td>Thermal Radiation and Conduction</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 712</td>
<td>Convection Heat and Mass Transfer</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG/MECHENG 718</td>
<td>Nonlinear Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 721</td>
<td>Fundamentals of Fluid Flow</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 722</td>
<td>Advanced Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 723</td>
<td>Computational Fluid Dynamics and Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 725</td>
<td>Fluid Power and Turbomachinery</td>
<td>2</td>
</tr>
<tr>
<td>ELECENG/MECHENG 819</td>
<td>Adaptive Control Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 credits of thesis
Select 9 credits of approved electives
Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)
Total Credits 30

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in
Concentration credits include the following:

**Concentration in Engineering Management**

Concentration credits include the following:

**Non-Thesis Capstone Option**

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<tr>
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<tbody>
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<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
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In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

**Non-Thesis Comprehensive Examination Option**

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In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master’s Program Committee. Or
2. The student passes a written master’s comprehensive examination when it is offered by the department.

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**Concentration in Engineering Management**

Concentration credits include the following:

**Program Requirements**

**Major Professor as Advisor**

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**Program of Study**

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

**Master’s Program Committee**

The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

**Time Limit**

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

**Engineering, MS: Engineering Mechanics**

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an areas of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
Admission Requirements

Application Deadlines
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1. Undergraduate major in engineering, mathematics or a natural science.
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Credits and Courses

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Thesis and Non-Thesis Options

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After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

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At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master’s Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

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In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

Non-Thesis Comprehensive Examination Option

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Engineering Mechanics Concentration
A minimum of 15 graduate credits selected from the following list\(^1\); may include up to 3 credits each of CIV Eng 990 and CIV Eng 999.

<table>
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<tr>
<th>Qualifying Courses</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CIV ENG 401</td>
<td></td>
<td>Intermediate Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 463</td>
<td></td>
<td>Introduction to Finite Elements</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 466</td>
<td></td>
<td>Mechanics of Composite Materials</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 469</td>
<td></td>
<td>Introduction to Biomechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 502</td>
<td></td>
<td>Experimental Stress Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 580</td>
<td></td>
<td>Engineering Analysis in Applied Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 701</td>
<td></td>
<td>Advanced Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 702</td>
<td></td>
<td>Elastic Stability</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 725</td>
<td></td>
<td>Finite Element Methods in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 726</td>
<td></td>
<td>Mechanical Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 732</td>
<td></td>
<td>Fatigue in Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 773</td>
<td></td>
<td>Advanced Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 774</td>
<td></td>
<td>Shock and Vibration Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 804</td>
<td></td>
<td>Theory of Plasticity</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 880</td>
<td></td>
<td>Bioengineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CIV ENG 990</td>
<td></td>
<td>Masters Thesis</td>
<td>1-9</td>
</tr>
<tr>
<td>CIV ENG 999</td>
<td></td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

\(^1\) The following course(s) are part of the approved course list, but are currently inactive: CIV ENG 890.

Program Requirements

Major Professor as Advisor
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Engineering, MS: Industrial and Systems Engineering

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- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

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**Industrial and Systems Engineering Concentration**

A minimum of 15 credits of qualifying graduate courses in Industrial and Manufacturing Engineering, may include up to 3 credits each of Ind Eng 990 and Ind Eng 999.
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<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

**Non-Thesis Comprehensive Examination Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
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<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
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<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master’s Program Committee. Or
2. The student passes a written master’s comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including textbooks and chapters.

**Manufacturing Engineering Concentration**

A minimum of 15 credits of qualifying graduate courses in Industrial and Manufacturing Engineering\(^1\), may include up to 3 credits each of Ind Eng 990 and Ind Eng 999.

**Qualifying Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 550</td>
<td>Control of Automated Manufacturing Systems</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 571</td>
<td>Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 575</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 582</td>
<td>Ergonomic Job Evaluation Techniques</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 583</td>
<td>Facility Layout and Material Handling</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 587</td>
<td>Lean Production Systems</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 716</td>
<td>Engineering Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 751</td>
<td>Flexible Manufacturing Systems</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 880</td>
<td>Bioengineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td>IND ENG 890</td>
<td>Advanced Topics in Industrial and Systems Engineering:*</td>
<td>1-3</td>
</tr>
<tr>
<td>IND ENG 990</td>
<td>Masters Thesis</td>
<td>1-9</td>
</tr>
<tr>
<td>IND ENG 999</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

\(^*\) Qualifying topics: Sustainable Energy Systems & Industrial Management; Connected Enterprise

\(^1\) The following qualifying course(s) are currently inactive: IND ENG 740.
Program Requirements

Major Professor as Advisor
The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student’s current advisor.

Program of Study
During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

Master’s Program Committee
The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

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

Engineering, MS: Materials Engineering
The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an areas of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses
Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options
Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student’s department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

Thesis Option
All students are encouraged to undertake the thesis option. The degree requires the following:
Mastery of the courses taken in the program of study may be credits must be of 700 level or above. In addition to the requirements listed in the table above, at least 15 approval. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

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<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
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<td>Select a minimum of 18 credits in an approved technical program of studies</td>
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<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
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<tr>
<td></td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

Non-Thesis Comprehensive Examination Option

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<tbody>
<tr>
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<td>Select a minimum of 21 credits in an approved technical program of studies</td>
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<td></td>
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<td>9</td>
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<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
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</tr>
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In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or

2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Materials Engineering Concentration

A minimum of 15 credits of graduate courses in Materials Engineering; may include up to 3 credits of MatlEng 990 or 999.

Qualifying Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATLENG 701</td>
<td>Properties of Solids</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 702</td>
<td>Advanced Materials Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 710</td>
<td>Advanced Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 720</td>
<td>Kinetic Processes in Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 731</td>
<td>Deformation Processing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 732</td>
<td>Solidification Processing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 740</td>
<td>Heterogeneous Equilibria</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 750</td>
<td>Thin Solid Films</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 760</td>
<td>Surface Analysis of Solids</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 890</td>
<td>Advanced Topics in Materials:</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 990</td>
<td>Masters Thesis</td>
<td>1-9</td>
</tr>
<tr>
<td>MATLENG 999</td>
<td>Advanced Independent Study</td>
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Program Requirements

Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

Time Limit

The student must complete all degree requirements within five years of initial enrollment.
Engineering, MS: Mechanical Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

Admission Requirements

Application Deadlines

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Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (http://uwm.edu/graduateschool/admission/gre) scores from a test taken within the last 5 years.

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Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

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<tr>
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<td>Select a minimum of 12 credits in an approved technical program of studies</td>
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</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits of thesis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

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<td></td>
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advisor at the time of admission. The College will assign the incoming student to an initial advise, supervise, and approve the Program of Study before registering for courses. The Graduate School requires that the student have a major professor to demonstrate by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Mechanical Engineering Concentration
A minimum of 15 credits of qualifying graduate courses in Mechanical Engineering.

Non-Thesis Comprehensive Examination Option

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
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</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

Engineering, MS: Occupational Biomechanics/Ergonomics

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an areas of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

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</tr>
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<td>Select 9 credits of approved electives</td>
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<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
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In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Program Requirements

Major Professor as Advisor
The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

Program of Study
During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

Master's Program Committee
The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

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

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office.
All students are encouraged to undertake the thesis option. The degree may always change from a Non-Thesis to a Thesis option. Departments may consider on a case-by-case basis. Students who change to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student’s department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master’s Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

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<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 31

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student’s background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master’s Program Committee for approval.

Non-Thesis Comprehensive Examination Option

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<tbody>
<tr>
<td></td>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits: 31

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master’s Program Committee. Or
2. The student passes a written master’s comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.
Occupational Biomechanics/Ergonomics Concentration

- Students must complete at least 6 credits of qualifying courses from Group A.
- Thesis option students must complete at least 18 credits combined of qualifying courses from Group A and Group B.
- Non-thesis option students must complete at least 24 credits combined from Group A and Group B.
- Students must complete at least 2, but no more than 3 credits, of INDENG 880.
- Any remaining credits in the MS in Engineering program of study may be taken as free electives.

<table>
<thead>
<tr>
<th>Qualifying Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Group A</strong></td>
<td></td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
</tr>
<tr>
<td>IND ENG 590/890</td>
<td>Topics in Industrial and Systems Engineering</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
</tr>
<tr>
<td><strong>Group B</strong></td>
<td></td>
</tr>
<tr>
<td>IND ENG 880</td>
<td>Bioengineering Seminar</td>
</tr>
<tr>
<td>IND ENG 575</td>
<td>Design of Experiments</td>
</tr>
<tr>
<td>IND ENG 582</td>
<td>Ergonomic Job Evaluation Techniques</td>
</tr>
<tr>
<td>KIN 520</td>
<td>Neuromechanics Research Methods</td>
</tr>
<tr>
<td>IND ENG 780</td>
<td>Advanced Ergonomics - Low Back Pain</td>
</tr>
<tr>
<td>IND ENG 783</td>
<td>Advanced Ergonomics - Upper Extremity</td>
</tr>
<tr>
<td>IND ENG 716</td>
<td>Engineering Statistical Analysis</td>
</tr>
<tr>
<td>IND ENG 890</td>
<td>Advanced Topics in Industrial and Systems Engineering: *</td>
</tr>
<tr>
<td>MATLENG 710</td>
<td>Advanced Mechanical Behavior of Materials</td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
</tr>
<tr>
<td>PH 759</td>
<td>Intro to Regression for Understanding the SDOH</td>
</tr>
<tr>
<td>PH 777</td>
<td>Quantitative Research Methods for PH Policy &amp; Administration</td>
</tr>
<tr>
<td>KIN 720</td>
<td>Biomechanics Research Methods</td>
</tr>
<tr>
<td>KIN 725</td>
<td>Interdisciplinary Themes in Biomechanics</td>
</tr>
</tbody>
</table>

* Qualifying Topics: Human Factors, Instrument in Ergonomics & Biomechanics, Connected Enterprise

Program Requirements

Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student’s current advisor.

Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

Master’s Program Committee

The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

Time Limit

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

Engineering, MS

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an areas of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (http://uwm.edu/graduateschool/admission/#gre) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA’s, RA’s, and PA’s.

Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 12 credits in an approved technical program of studies</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits of thesis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

Non-Thesis Capstone Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 18 credits in an approved technical program of studies</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

Non-Thesis Comprehensive Examination Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select a minimum of 21 credits in an approved technical program of studies</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 1 credits CEAS Graduate Seminar (Offered by each department and numbered 700)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>31</td>
</tr>
</tbody>
</table>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

Program Requirements

Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.
Program of Study
During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

Master’s Program Committee
The Master’s Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

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

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

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

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
</tr>
<tr>
<td>or URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 27

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban Planning Credits (See course list above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Civil Engineering Concentration credits (see courses below)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of approved electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits CEAS Graduate Seminar</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits of thesis</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 54

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban Planning Credits (See course list above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum 18 credits approved credits including Civil Engineering Concentration (see courses below)</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of approved electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 1 credits CEAS Graduate Seminar</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits of capstone: Capstone course or flexible independent study</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 55

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban Planning Credits (See course list above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum 21 credits approved credits including Civil Engineering Concentration (see courses below)</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of approved electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 1 credits CEAS Graduate Seminar</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 55

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

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

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
   a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
   b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.

3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.

4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.


6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor’s degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 21 credits in the major area of concentration</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits in an approved minor area</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits in mathematics and/or quantitative methods</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 18 credits of doctoral thesis</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits of approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits of CEAS Graduate Seminar (each department has its own section of this course, numbered 700)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 66

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major or the minor area, the remaining credits may be taken as approved electives.
The student must achieve a 3.0 GPA separately in each of the following areas: the major area, the minor area, and the quantitative methods area.

The major area of concentration must be in one of the six areas approved for the PhD degree in the College. These areas are:

- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials
- Mechanical Engineering

The minor is normally in another area offered in the College or in the physical sciences or mathematics or in management sciences. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 26 credits, excluding doctoral thesis, must be at the 700 level or higher.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master’s degree who intend to complete a second master’s and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master’s degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

**Program Requirements**

**Major Professor as Advisor**

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student’s thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

**Foreign Language**

There is no foreign language requirement for the degree.

**Residence**

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

**Qualifying Examination**

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor’s degree or with a master’s degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master’s degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.
- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the graduate school that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student’s first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

**Doctoral Program Committee**

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from another area). The member from another area may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets graduate school requirements. The Committee may have
more than five members, provided that the majority of the Committee members are from the student's major field.

**Doctoral Preliminary Examination**
A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

**Dissertation and Dissertator Status**
The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis. After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

**Dissertation Defense**
The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

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

For additional information see the Graduate School PhD requirements (http://uwm.edu/graduateschool/phd-requirements).

**Ergonomics, Graduate Certificate**

*The Certificate in Ergonomics is being revised; admission to the program is temporarily suspended.*

The Certificate in Ergonomics program is designed to provide a formal program of study for students who wish to pursue careers in ergonomics in industry, government, or academia.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

**Admission**

Students wishing to earn the certificate must be enrolled in a UWM master's or doctoral degree program in any department or be admitted as UWM non-degree graduate students (see below).

Graduate non-degree applicants can be admitted to CEAS provided they meet one of the following requirements:

- A bachelor's or higher degree with a GPA of 2.75 or better in engineering, medicine, industrial hygiene, safety, physical therapy, occupational therapy, nursing, educational psychology, human kinetics.
- A bachelor's or higher degree with a GPA of 2.75 or better with evidence of at least one year of experience in ergonomics and/or occupational health and safety related area.

**Application**

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

**Credits and Courses**

Students must complete the required 15 credit hours with a GPA of 3.0 or better from the following group of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 790</td>
<td>Design Project</td>
<td>2-3</td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 780</td>
<td>Advanced Ergonomics - Low Back Pain</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 783</td>
<td>Advanced Ergonomics - Upper Extremity</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 786</td>
<td>Applied Biostatistics in Ergonomics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Certificate Requirements**

**Transfer Credit**
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:

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

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

**Time Limit**
Certificate program time limits shall be established as follows:

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

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

Industrial and manufacturing engineers are concerned with the design, improvement, installation, and operation of integrated systems of people, material, information, and energy for the development of environmentally sound and globally competitive enterprises.

Industrial/manufacturing engineers are needed in industries ranging from medical products and equipment manufacturing to automotive and electronic components manufacturing. Their skills benefit organizations such as hospitals, banks, airlines, telecommunications companies, and more. Some activities of an industrial/manufacturing engineer include: methods improvement; plant layout; integration of automation components (CAD and CAM); logistics; supply chain management; economic analysis; optimization of resources; quality control; reliability analysis; and ergonomics, i.e., design of workplaces, equipment, and tools for maximum productivity and employee comfort and safety.

In manufacturing companies, industrial/manufacturing engineers may be responsible for production and inventory control, quality control, plant layout, and work station design, and may lead the effort for the introduction of new technologies and other advancements. In service organizations these engineers may develop methods for optimal utilization of resources, such as doctors, nurses, and medical equipment in a hospital; determine the optimal number of communication lines and service level for a telephone company; participate in the development of a total quality management system for a bank, etc.

Mission Statement

The mission of the department is to provide a broad-based education in industrial and manufacturing engineering and to prepare students for a diversified career in industry, academia, government, and private sectors.

Programs

- Industrial Engineering, BSE (p. 749)
- Industrial Engineering, Minor (p. 752)

Industrial and Manufacturing Engineering Courses

IND ENG 111 Introduction to Engineering
3 cr. Undergraduate.
Introduction to Engineering Disciplines, problem solving methods, teamwork, technical communication, professionalism, and ethics.
Prerequisites: Math 116(C).
Course Rules: Counts as repeat of Ind Eng 210.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

IND ENG 112 Engineering Drawing & Computer Aided Design/Drafting
3 cr. Undergraduate.
Visualization, Engineering Drawing, CAD, Geographic Information Systems (GIS), Group Project, Team Work.
Prerequisites: Math 116(P).
Course Rules: Counts as repeat of Ind Eng 101.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

IND ENG 299 Independent Reading and Work
1-3 cr. Undergraduate.
Credit hours to be arranged between student and staff on an individual basis.
Prerequisites: cons instr.
Current Offerings: http://uwm.edu/schedule

IND ENG 350 Manufacturing Processes
3 cr. Undergraduate.
Broad study of processes and equipment used in modern production. Design considerations, economic factors, automation, metals and plastics processing, fabrication of electronic materials.
Prerequisites: MatlEng 201(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND ENG 360 Engineering Economic Analysis
3 cr. Undergraduate.
Concept of time value of money. Economical evaluation of alternate projects and replacement policies using methods such as present worth, rate of return, and annual cost. Engineering investment decision analysis.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

IND ENG 367 Introductory Statistics for Physical Sciences and Engineering Students
3 cr. Undergraduate.
Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing; parameter estimation; regression analysis.
Prerequisites: B- or better in Math 211(P) or B- or better in Math 213(P) or C or better in Math 221(P) or C or better in Math 231(P)
Current Offerings: http://uwm.edu/schedule

IND ENG 370 Introduction to Operations Analysis
3 cr. Undergraduate.
Functions and philosophies of the contemporary engineer in the production/service environment as it is planned, designed, manufactured/delivered, maintained, controlled and distributed.
Prerequisites: Math 233(P)
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
IND ENG 390 Senior Thesis
1-3 cr. Undergraduate.
Independent research under the direction of a faculty member; submission of a written thesis is required.
Prerequisites: sr st & cons instr.
Course Rules: 3 cr total required. Need not all be taken during the same semester.
Current Offerings: http://uwm.edu/schedule

IND ENG 405 Product Realization
3 cr. Undergraduate/Graduate.
This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.
Course Rules: Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Counts as repeat of Art 402/Ind Eng 590/MechEng 490 with same topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

IND ENG 455 Operations Research I
3 cr. Undergraduate/Graduate.
Fundamental optimization methods; linear programming, integer programming, network models, and dynamic programming methods of operations research. Modeling and applications of these methods in practical situations.
Prerequisites: jr st; Math 233(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND ENG 455 Operations Research II
3 cr. Undergraduate/Graduate.
Concepts and methods of probabilistic modeling in queueing, forecasting, and inventory problems for design and analysis of manufacturing and service operations.
Prerequisites: jr st; Ind Eng 467(P) or MthStat 467(P) or equiv course in statistics.
Current Offerings: http://uwm.edu/schedule

IND ENG 470 Methods Engineering
3 cr. Undergraduate/Graduate.
Use of production machine for producing a simple product. Study of production sequence, material flow, plant layout; time and motion; and the economics of materials and methods of fabrication. Redesign of the product and the methods of production to minimize total costs within physical, social and aesthetic constraints.
Prerequisites: jr st; Ind Eng 467(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND ENG 475 Simulation Methodology
3 cr. Undergraduate/Graduate.
Fundamentals of discrete simulation. Random number and random variable generation for simulation modeling and analysis using simulation software.
Prerequisites: Ind Eng 467(P), CompSci 201(C).
Current Offerings: http://uwm.edu/schedule

IND ENG 485 Senior Design Project
3 cr. Undergraduate.
Capstone design projects involving design of a production/service system. Progress reports, final report, and presentation.
Prerequisites: sr st, Ind Eng 370(P), 455(P), 465(C), 470(C), 475(P), 571(C), 580(C), 583(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

IND ENG 499 Ad Hoc:
1-12 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

IND ENG 550 Control of Automated Manufacturing Systems
3 cr. Undergraduate/Graduate.
Theoretical and practical skills to design and control automated manufacturing systems and industrial processed through science-based theoretical advancements and state-of-the-art industrial applications.
Prerequisites: jr st; ElecEng 234(P), 301(P).
Current Offerings: http://uwm.edu/schedule

IND ENG 571 Quality Control
3 cr. Undergraduate/Graduate.
Statistical process quality design and control. Process control charts, six sigma and process capability assessment.
Prerequisites: jr st & Ind Eng 467(P) or equiv course in statistics; or grad st.
Current Offerings: http://uwm.edu/schedule

IND ENG 572 Reliability Engineering
3 cr. Undergraduate/Graduate.
Concepts and methods for the design, testing, and estimation of component and system reliabilities. Failures and failure rates; life tests; series-parallel, and standby systems; stress levels; redundancy and reliability apportionment; maintainability, availability, and safety; reliability design and implementation.
Prerequisites: jr st, Ind Eng 467(P) or equiv.
Current Offerings: http://uwm.edu/schedule

IND ENG 575 Design of Experiments
3 cr. Undergraduate/Graduate.
Statistical principles, designs and analyses for planned experimentation; factorial and fractional factorial designs, inner-out designs, robustness, confounding and blocking, and response surface methodology.
Prerequisites: Ind Eng 467(P) or equiv.
Current Offerings: http://uwm.edu/schedule

IND ENG 577 Dimensional Measurement and Tolerancing
3 cr. Undergraduate/Graduate.
Measurement techniques; implementation and integration of precision measuring equipment and gages in manufacturing systems; geometric dimensioning and tolerancing; and devices for statistical process control.
Prerequisites: sr st & Ind Eng 467(P).
Current Offerings: http://uwm.edu/schedule
IND ENG 580 Ergonomics
3 cr. Undergraduate/Graduate.
Broad study of ergonomics principles and stresses in design and analysis of workplaces and physical environment; 2 hrs lec & 2 hrs lab/week.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND ENG 582 Ergonomic Job Evaluation Techniques
3 cr. Undergraduate/Graduate.
Review of popular, contemporary methods of job evaluation for risk of low back pain and distal upper extremity.
Prerequisites: sr st & Ind Eng 580(P).
Current Offerings: http://uwm.edu/schedule

IND ENG 583 Facility Layout and Material Handling
3 cr. Undergraduate/Graduate.
Basics in facility planning; design and integration of plant layout, material handling, and warehousing; quantitative models for facility location problems.
Prerequisites: sr st, Ind Eng 370(P), Ind Eng 455(C).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND ENG 584 Biodynamics of Human Motion
3 cr. Undergraduate/Graduate.
Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab.
Prerequisites: jr st, ElecEng 234(P); Civ Eng202(C).
Last Taught: Spring 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

IND ENG 587 Lean Production Systems
3 cr. Undergraduate/Graduate.
An integrated approach to efficient manufacturing of products with high quality, low cost, and timely delivery including one-piece flow, pull system, and visual factory.
Prerequisites: Ind Eng 350(P).
Current Offerings: http://uwm.edu/schedule

IND ENG 590 Topics in Industrial and Systems Engineering:
1-3 cr. Undergraduate/Graduate.
Selected topics of current interest in an area of systems design.
Prerequisites: sr st.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

IND ENG 699 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: Limited to max of 6 cr applied toward undergraduate degree.
Last Taught: Spring 2018, Fall 2017, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND ENG 700 CEAS Graduate Seminar
1-3 cr. Graduate.
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.
Prerequisites: grad st
Course Rules: Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700, MatlEng 700 & MechEng 700 are jointly offered and count as repeats of one another
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

IND ENG 716 Engineering Statistical Analysis
3 cr. Graduate.
Statistical methods and their applications to solve engineering decision-making problems, integrating computer usage. Inference, probability and probability distributions, data analysis, regression analysis, and anova.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

IND ENG 717 Operations Research in Engineering Management
3 cr. Graduate.
Various operations research techniques for engineering management decision-making. Linear programming, integer programming, network models, multi-objective decision-making, decision analysis, and queueing models.
Prerequisites: grad st; Ind Eng 716(P).
Last Taught: Fall 2016, Fall 2015, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

IND ENG 750 Group Technology and Process Planning
3 cr. Graduate.
Group technology and computer-aided process planning; classification and coding schemes, machine loading, production planning/scheduling models, process planning, expert systems in capp.
Prerequisites: grad st; Ind Eng 450 & 455.
Current Offerings: http://uwm.edu/schedule

IND ENG 751 Flexible Manufacturing Systems
3 cr. Graduate.
Hierarchy of manufacturing control, process control, advanced concepts in fms, optimal design planning and production scheduling in fms.
Prerequisites: grad st; Ind Eng 450 & 455.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

IND ENG 765 Operations Research Methods
3 cr. Graduate.
Formulation and application of mathematical models for the design of industrial systems. Mathematical programming, network flow, decision theory and simulation techniques are used for solving single and multi-stage production, inventory and service problems.
Prerequisites: grad st; Ind Eng 465 & 767.
Current Offerings: http://uwm.edu/schedule
IND ENG 772 Facilities Planning
3 cr. Graduate.
Modern techniques in facilities planning, location of the facility; systems approach, factors and evaluation. Systematic layout planning, computerized methods. Assembly line balancing, simulation techniques. Cpm and pert. Projects and laboratory work.
Prerequisites: grad st; Ind Eng 455 & 470.
Current Offerings: http://uwm.edu/schedule

IND ENG 777 Scheduling and realtime resource management
3 cr. Graduate.
Scheduling (allocation of resources over time) and realtime resource management techniques in highly informative production and service systems.
Prerequisites: grad st; Ind Eng 370(P), 475(P), 455(P), 465(P) or cons instr
Last Taught: Spring 2017, Spring 2015, Fall 2010.
Current Offerings: http://uwm.edu/schedule

IND ENG 780 Advanced Ergonomics - Low Back Pain
3 cr. Graduate.
An in-depth study of lbp causes, risk factors, preventive approaches, job evaluation/design techniques. 2 hr lec & 2 hr lab/week.
Prerequisites: grad st; Ind Eng 580(P); a course in anatomy & physiology or cons instr
Last Taught: Spring 2013, Fall 2009, Fall 2007, Fall 2005.
Current Offerings: http://uwm.edu/schedule

IND ENG 783 Advanced Ergonomics - Upper Extremity
3 cr. Graduate.
In depth study of musculoskeletal disorders of upper extremity, personal and job risk factors, job analysis, design and prevention. 2 hr lec & 2 hr lab/week.
Prerequisites: grad st; Ind Eng 580(P); a course in Anatomy & Physiology or cons instr
Current Offerings: http://uwm.edu/schedule

IND ENG 786 Applied Biostatistics in Ergonomics
3 cr. Graduate.
Statistical methods used in ergonomic studies to analyze, summarize, and report measurements and data. 2 hr lec & 2 hr lab/week.
Prerequisites: grad st; Ind Eng 580(P); a course in statistics or cons instr.
Course Rules: Jointly offered with & counts as repeat of OccThpy 786.
Current Offerings: http://uwm.edu/schedule

IND ENG 790 Design Project
2-3 cr. Graduate.
Integration and application of concepts learned in other ergonomic courses to analyze and abate ergonomic hazards in a scientific manner.
Prerequisites: grad st; Ind Eng 780(P), 783(P), 786(P), 788(P); or cons instr.
Course Rules: Jointly offered with & counts as repeat of OccThpy 790.
Current Offerings: http://uwm.edu/schedule

IND ENG 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, IndEng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Current Offerings: http://uwm.edu/schedule

IND ENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

IND ENG 890 Advanced Topics in Industrial and Systems Engineering:
1-3 cr. Graduate.
Topics vary. Advanced topics of current interest in an area of systems-design; review of recent literature. Subject matter may be student initiated. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

IND ENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

IND ENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog comm.
Current Offerings: http://uwm.edu/schedule

IND ENG 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog committee.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naira Campbell-Kyureghyan</td>
<td>Professor</td>
<td>PhD</td>
<td>The Ohio State University</td>
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<tr>
<td>Tsong-How Chang</td>
<td>Associate Professor</td>
<td>PhD</td>
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</tbody>
</table>
Industrial Engineering, BSE

Industrial & Manufacturing Engineering is an operations and optimization science, focused on productivity, quality and continuous improvement of all business operations from acquisition of raw materials/resources to delivery of finished products/services to customers.

Industrial & Manufacturing Engineering is among the most far-reaching disciplines of engineering. Industrial and Manufacturing Engineers work in diverse industries within both the public and private sectors. Because of the flexibility and value of industrial engineering skills, employment opportunities are numerous and diverse.

Accreditation

The College of Engineering and Applied Science is accredited by the Engineering Accreditation Commission of ABET, 415 N. Charles Street, Baltimore, MD 21201, (410) 347-7700.

New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to the First-Year Program. Admission directly to the major is selective.

Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or the Transfer Transition Program based on the number of transfer credits and GPA.

Admission to the Major

Students admitted to the First-Year Program or Transfer Transition Program (Engineering-Intended or Computer Science-Intended) may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

First-Year students have a maximum of three semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Transfer Transition students have a maximum of two semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Placement Testing

Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in chemistry, English, and math may not be required to take placement tests. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count toward the degree program. Entering students are urged to take their placement exams when scheduled. All placement exams must be completed before beginning coursework in the subject area. Students who place into precalculus math courses may be asked to participate in an online summer bridge program.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

Industrial Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in industrial engineering is 125. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Admission to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>CIV ENG 201</td>
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<td>CIV ENG 202</td>
<td>Dynamics</td>
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<td>COMPSCI 240</td>
<td>Introduction to Engineering Programming</td>
<td>3</td>
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<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 111</td>
<td>Introduction to Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 112</td>
<td>Engineering Drawing &amp; Computer Aided Design/Drafting</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
</tr>
</tbody>
</table>

**Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 350</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 370</td>
<td>Introduction to Operations Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 455</td>
<td>Operations Research I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 465</td>
<td>Operations Research II</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 470</td>
<td>Methods Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 475</td>
<td>Simulation Methodology</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 485</td>
<td>Senior Design Project</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 571</td>
<td>Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 575</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 583</td>
<td>Facility Layout and Material Handling</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics Requirement**

Select one of the following Calculus sequences: 10-12

<table>
<thead>
<tr>
<th>Sequence 1:</th>
<th>Calculus and Analytic Geometry I &amp; and Calculus and Analytic Geometry II &amp; and Calculus and Analytic Geometry III</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 232</td>
<td></td>
</tr>
<tr>
<td>&amp; MATH 233</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sequence 2:</th>
<th>Honors Calculus I &amp; Honors Calculus II</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 221</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 222</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECENG 234** Analytical Methods in Engineering 4

**Natural Science Requirement**

Select one of the following options: 8-10

**Option 1:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 104</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Option 2:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 105</td>
<td>General Chemistry for Engineering Approved Natural Science Elective (Minimum 3 credits)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment) &amp; Physics II (Calculus Treatment)</td>
<td>8</td>
</tr>
<tr>
<td>&amp; PHYSICS 210</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GER Distribution Requirement**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 310</td>
<td>Writing, Speaking, and Technoscience in the 21st Century</td>
<td>3</td>
</tr>
</tbody>
</table>

Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement

**Free Electives**

Select 4 credits

---

**English Composition Requirement**

Satisfied by one of the following: 2

- Earning a satisfactory score on the English placement test;
- Earning a grade of C or higher in ENGLISH 102;
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course;
- Demonstrating ability by examination.

**Foreign Language Requirement**

Satisfied by one of the following: 0-8

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college;
- Demonstrating ability by examination.

**Placement Examinations.** Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

**Approved Natural Science Elective Courses**

- Atmospheric Science 100 level or above
- BIO SCI 150 or above
- CES 210
- GEO SCI 100, GEO SCI 102, GEO SCI 150 or above
- MATH 240 or MATH 300 level or above
- Physics 300 level or above

**Technical Electives**

The industrial engineering program requires a total of 12 credits of technical electives, chosen from the following list. At least 6 credits must be in courses from IND ENG. All non-required IND ENG courses numbered 400-699 are approved technical electives.

**Code**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 390</td>
<td>Senior Thesis</td>
<td>6-12</td>
</tr>
<tr>
<td>IND ENG 405</td>
<td>Product Realization</td>
<td></td>
</tr>
<tr>
<td>IND ENG 550</td>
<td>Control of Automated Manufacturing Systems</td>
<td></td>
</tr>
<tr>
<td>IND ENG 572</td>
<td>Reliability Engineering</td>
<td></td>
</tr>
<tr>
<td>IND ENG 582</td>
<td>Ergonomic Job Evaluation Techniques</td>
<td></td>
</tr>
<tr>
<td>IND ENG 584</td>
<td>Biodynamics of Human Motion</td>
<td></td>
</tr>
<tr>
<td>IND ENG 587</td>
<td>Lean Production Systems</td>
<td></td>
</tr>
<tr>
<td>IND ENG 590</td>
<td>Topics in Industrial and Systems Engineering</td>
<td></td>
</tr>
<tr>
<td>IND ENG 699</td>
<td>Independent Study</td>
<td>0-6</td>
</tr>
</tbody>
</table>

Select at least 6 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td></td>
</tr>
<tr>
<td>EAS 1</td>
<td>Engineering Co-op Work Period 1</td>
<td></td>
</tr>
<tr>
<td>MECHENG 301</td>
<td>Basic Engineering Thermodynamics</td>
<td></td>
</tr>
<tr>
<td>MECHENG/ELECENG</td>
<td>Introduction to Control Systems</td>
<td></td>
</tr>
</tbody>
</table>
cases concerning the degree requirements and other academic rules. The appeals committee considers individual policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with their advisors to plan each semester’s list of classes. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate student academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:
• course registration,
• graduation planning,
• career preparation,
• and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

Program Educational Objectives
The educational objectives of the undergraduate Industrial Engineering Program are:

1. Graduates will have successful careers as professionals in industrial engineering or related fields.
2. Graduates contribute to improving efficiency, productivity, and/or quality of products manufactured or services provided by their organization.
3. Graduates demonstrate professionalism and continue their professional development.

Honors in the College of Engineering and Applied Science

Dean’s Honor List
GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Joint Programs with Other Campuses

Pre-engineering
Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs
Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

Industrial Engineering, Minor
The minor in industrial and manufacturing engineering is ideally suited for:

• Business majors interested in strengthening their background in quantitative production operations management
• Computer Science majors interested in advanced optimization techniques
• Mechanical Engineering majors interested in development and implementation of integrated manufacturing systems
• Civil Engineering majors focusing on transportation where advanced optimization techniques may be useful

Requirements - 21 Credits
The program of study to obtain the minor in industrial and manufacturing engineering consists of four required courses and three elective courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>IND ENG 455</td>
<td>Operations Research I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 470</td>
<td>Methods Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 350</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 370</td>
<td>Introduction to Operations Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 465</td>
<td>Operations Research II</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 475</td>
<td>Simulation Methodology</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 571</td>
<td>Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 572</td>
<td>Reliability Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 583</td>
<td>Facility Layout and Material Handling</td>
<td>3</td>
</tr>
</tbody>
</table>

If you are interested in an Industrial and Manufacturing Engineering minor, contact Student Services at ceas-adv@uwm.edu or (414) 229-4667. Student Services is located in the EMS building, Room E386.
INTEGRATED BS-MS DEGREE

Requirements

Admission
An Integrated BS-MS program is available for exceptional undergraduate students. In this program, students take 6 graduate credits while completing the BS degree.

Minimum admission requirements:

- 3.2 GPA.
- 36 credits or less remaining for the BS.
- Approval from their major department.

Application Process

- In consultation with their major professor, students must complete an Integrated BS/MS Program of Study Form. Students must indicate on the form which 6 graduate-level credits are being taken while completing the BS degree. Engineering students must have the form approved by the CEAS Office of Graduate Programs and Research. Computer Science students must have the form approved by the Graduate Program Representative for the CompSci MS Program. Students must have their Program of Study approved prior to the start of the final undergraduate semester and before starting graduate courses.
- Students must apply to the Graduate School. The MS degree requirements must be completed within five years of completion of the BS degree. Students in the Integrated Program are not required to take the GRE exam for admission to the Graduate School.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Program of Study
Advanced standing will be granted to Integrated BS-MS students who have successfully completed six credits of pre-approved coursework at the graduate level with a grade of B or better. If a course has U/G status, the student must follow the syllabus and grading scale designated for graduate students. Once admitted to the Graduate School, students in the Integrated Program are not required to take the GRE exam for admission to the Graduate School.

Master of Science in Computer Science

Thesis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 704</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional credits of 700 or higher-level courses</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of additional courses that carry graduate credit</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 990</td>
<td>Masters Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Non-Thesis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 700</td>
<td>CEAS Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>COMPSCI 704</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Select 15 additional credits of 700 or higher-level courses</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of additional courses that carry graduate credit</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 995</td>
<td>Master’s Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

The following is a common requirement for both options: The students must have taken six Computer Science courses (specified below) or their equivalent prior to completion of the MS Program.

Appropriate courses satisfy the common requirement with the approval of the department.

The six courses are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>COMPSCI 417</td>
<td>Introduction to the Theory of Computation</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 431</td>
<td>Programming Languages Concepts</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 536</td>
<td>Software Engineering</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

At most six credits of the above courses with UG credit may be used to satisfy the courses requirements of the two options.

In the thesis option, the student must register for thesis credits (COMPSCI 990) in at least two semesters.

Time Limit
The MS degree requirements must be completed within five years of the first enrollment in the Integrated Program.

Graduation
Students who withdraw from the Integrated Program may continue in the BS program and be awarded the bachelor’s degree.
MATERIALS ENGINEERING

In today’s world there is a constant demand for new materials of superior quality or with particular combinations of properties. It is the task of the materials engineer to use chemical and physical processes to provide new materials, more useful and valuable products, and improvements in the properties of existing materials on a cost-effective basis.

Materials engineering, like other branches of engineering, is based on mathematics, physics, and chemistry.

Necessarily, the engineer must work with every type of material, whether it be metal, glass, plastic, or naturally occurring rock or wood; and electrical conductors, semiconductors, or insulators, transparent or otherwise. The variety of available materials is as wide as the applications; to use them to good effect, the engineer must understand the nature of the substances that might be used for a particular purpose and the chemical and physical processes that are involved in their production.

Being in a central position in the development and design of new products, the materials engineer has excellent and varied career opportunities, extending from fundamental research through primary production processes and subsequent manufacturing to quality control and failure analysis.

Mission Statement

The Materials Department is committed to provide comprehensive undergraduate and graduate education in Materials Engineering, outstanding research, and service to our students, College, the University of Wisconsin-Milwaukee, and the community, as well as to active participation in professional societies.

Programs

• Materials Engineering, BSE (p. 759)
• Materials Engineering, Minor (p. 763)

Materials Engineering Courses

MATLENG 150 It’s a Material World: The Role of Materials in Society
3 cr. Undergraduate.
Introductory course on the nature of materials and their role in the development of society. Historical perspectives, current societal issues, and future trends are discussed.
Prerequisites: none.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

MATLENG 201 Engineering Materials
4 cr. Undergraduate.
Basic behavior and processing of engineering materials emphasizing metals and alloys including ceramics and plastics. Laboratory work is included.
Prerequisites: Math 231(C), score of 1 on chem placement test or min grade C in Chem 100(P)
Current Offerings: http://uwm.edu/schedule

MATLENG 299 Topics in Materials
1-3 cr. Undergraduate.
Work on new material in materials. Section title and credits announced whenever course is offered.
Prerequisites: specific courses dependent on topic.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

MATLENG 330 Materials and Processes in Manufacturing
3 cr. Undergraduate.
Principles and practice of manufacturing processes for engineering materials. Processes include casting, forging, rolling, extrusion, sintering and machining. Laboratory work is included.
Prerequisites: MatEng 201(P).
Current Offerings: http://uwm.edu/schedule

MATLENG 380 Engineering Basis for Materials Selection
3 cr. Undergraduate.
The study of the basis for materials selection in the design of engineering systems. Materials design parameters, classes of materials case studies in material's selections.
Prerequisites: MatEng 201(P).
Current Offerings: http://uwm.edu/schedule

MATLENG 385 Introduction to Biomaterials
3 cr. Undergraduate.
Introduction to the fundamentals of biomaterials including ceramics, metals, and polymers. Important issues in the selection, design, manufacturing, and evaluation of biomaterials. Current applications, and emerging technologies.
Prerequisites: jr st, MatEng 201(P).
Course Rules: Jointly offered with 8 counts as repeat of BME 385.
Current Offerings: http://uwm.edu/schedule

MATLENG 402 Physical Metallurgy
3 cr. Undergraduate/Graduate.
Crystal binding and electron theory of solids, phase diagrams, diffusion, nucleation and growth, recrystallization, precipitation hardening, solidification, austenite decomposition.
Prerequisites: jr st, MatEng 201(P).
Current Offerings: http://uwm.edu/schedule

MATLENG 410 Mechanical Behavior of Materials
3 cr. Undergraduate/Graduate.
An introduction to the mechanical behavior of metals, ceramics, polymers and composite materials. Topics include elastic, plastic and viscoelastic deformation, fracture, fatigue, and creep.
Prerequisites: jr st, MatEng 201(P); or grad st; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATLENG 411 Materials Laboratory
3 cr. Undergraduate.
Experiments demonstrating the basic laws governing the structure, properties, and processing of materials.
Prerequisites: sr st; MatEng 201(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

http://uwm.edu/schedule
MATLENG 431 Welding Engineering
3 cr. Undergraduate/Graduate.
An engineering course on joining processes; reaction of materials to welding, brazing and soldering; distortion; process and material selection and structural engineering considerations.
Prerequisites: jr st; MatlEng 201(P).
Last Taught: Spring 2018, Fall 2013, Fall 2011, Fall 2007.
Current Offerings: http://uwm.edu/schedule

MATLENG 442 Thermodynamics of Materials
3 cr. Undergraduate/Graduate.
Third law of thermodynamics; application of thermodynamics to materials processes and systems; behavior of solutions; reaction equilibria.
Prerequisites: jr st, admis to MatlEng major, MatlEng 201(P); or grad st; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATLENG 443 Transport Phenomena in Materials Processing
3 cr. Undergraduate/Graduate.
A study of phenomena related to transport of mass, energy, and momentum with applications to materials processing.
Prerequisites: jr st, MatlEng 442(P); & ElecEng 234(P) or Math 234(P); or grad st.
Current Offerings: http://uwm.edu/schedule

MATLENG 452 Ceramic Materials
3 cr. Undergraduate/Graduate.
Ceramic bonding, crystallography and structure, defects and Brouwer diagram, mass and electrical transport of ceramics, phase equilibria, mechanical properties, and processing of ceramics including sintering.
Prerequisites: jr st, MatlEng 201(P); or grad st.
Course Rules: Not open for cr to students with cr in MatlEng 451(ER).
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MATLENG 453 Polymeric Materials
3 cr. Undergraduate/Graduate.
Structure, crystallinity of polymers, amorphous polymers and elastomers, synthesis method, polymerization, copolymerization, polymer characterization, polymer solutions, and viscoelasticity, deformation mechanics of polymers.
Prerequisites: jr st, MatlEng 201(P); or grad st.
Course Rules: Not open for cr to students with cr in MatlEng 451(ER).
Current Offerings: http://uwm.edu/schedule

MATLENG 456 Metal Casting Engineering
3 cr. Undergraduate/Graduate.
Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MatlEng 456(421) and MechEng 456 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MATLENG 457 Engineering Composites
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MatlEng 457(455) & MechEng 457 are jointly offered; they count as repeats of each other.
Current Offerings: http://uwm.edu/schedule

MATLENG 460 Nanomaterials and Nanomanufacturing
3 cr. Undergraduate/Graduate.
Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: MatlEng 460 & MechEng 460 are jointly offered; they count as repeats of each other.
Current Offerings: http://uwm.edu/schedule

MATLENG 461 Environmental Degradation of Materials
3 cr. Undergraduate/Graduate.
Technical and economic aspects of material degradation including corrosion and corrosion control. Forms of corrosion, other degradation mechanisms, thermodynamics, kinetics, materials, design, protection strategies.
Prerequisites: jr st; MatlEng 201(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATLENG 465 Friction and Wear
3 cr. Undergraduate/Graduate.
Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement.
Prerequisites: jr st; MatlEng 201(P).
Course Rules: Not open to students who have cr in MechEng 465, which is identical to MatlEng 465.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MATLENG 471 Heat Treatment of Materials
3 cr. Undergraduate/Graduate.
Study of the heat treatment processes and their effect on the microstructure and properties of metals. Emphasis is on steels, but all alloy systems of importance are covered.
Prerequisites: jr st; MatlEng 201(P).
Current Offerings: http://uwm.edu/schedule

MATLENG 481 Electronic Materials
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MatlEng 201(P) or cons instr.
Current Offerings: http://uwm.edu/schedule
MATLENG 483 Materials for Energy Systems
3 cr. Undergraduate/Graduate.
Processing, structure, and properties of materials used in energy systems. Focus on materials applied to solid oxide fuel cells, photovoltaics, and advanced secondary batteries.
Prerequisites: jr st, MatlEng 201(P).
Last Taught: Fall 2017, Fall 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATLENG 490 Senior Design Projects I
1 cr. Undergraduate.
Project identification and planning; proposals, project management, ethics, professional responsibilities, standards and team procedures. Written and oral engineering reports and proposals. For first semester seniors.
Prerequisites: sr st, MatlEng 411(C).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MATLENG 491 Senior Design Projects II
3 cr. Undergraduate.
Independent and team design projects under the direction of a faculty member. Written and oral engineering reports must be submitted on each design project undertaken.
Prerequisites: MatlEng 490(P).
Current Offerings: http://uwm.edu/schedule

MATLENG 511 Advanced Materials Characterization
3 cr. Undergraduate/Graduate.
Theory and operation of advanced materials characterization instrumentation including thermal analysis (TGA, DSC, DMA), XRD, SEM/EDS, FTIR/Raman, 3D confocal microscopy. Prereq: jr st & MatlEng 411(P).
Prerequisites:
Current Offerings: http://uwm.edu/schedule

MATLENG 585 Advanced Biomaterials
3 cr. Undergraduate/Graduate.
Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.
Prerequisites: sr st, MatlEng 385(P) or BME 385(P); or cons instr.
Course Rules: Jointly offered with & counts as repeat of BME 585.
Current Offerings: http://uwm.edu/schedule

MATLENG 690 Topics in Materials:
3 cr. Undergraduate/Graduate.
Lectures on special topics in materials engineering and science.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Last Taught: Spring 2017, Fall 2015, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MATLENG 699 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to max of 6 cr applied toward undergraduate degree.
Current Offerings: http://uwm.edu/schedule

MATLENG 700 CEAS Graduate Seminar
1-3 cr. Graduate.
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.
Prerequisites: grad st
Course Rules: CIV 700, CompSci 700, ElecEng 700, Ind Eng 700, MatlEng 700 & MechEng 700 are jointly offered and count as repeats of one another
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATLENG 701 Properties of Solids
3 cr. Graduate.
The applications of physics to the understanding of the properties of solids, including lattice mechanics, band theory, electrical, thermal, magnetic, and defect properties.
Prerequisites: MatlEng 402(P).
Last Taught: Spring 2018, Spring 2016, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MATLENG 702 Advanced Materials Thermodynamics
3 cr. Graduate.
Thermodynamics of materials including solutions, mixtures, and interfaces. Topics including statistical interpretation of entropy, chemical reactions, Ellingham diagrams, phase diagrams, and intermediate phases.
Prerequisites: grad st; MatlEng 442(P)
Current Offerings: http://uwm.edu/schedule

MATLENG 710 Advanced Mechanical Behavior of Materials
3 cr. Graduate.
Advanced topics on the mechanical properties of materials including plasticity, anelasticity, fracture, creep, fatigue, and the effects of temperature, rates, and processing history.
Prerequisites: grad st; MatlEng 410(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

MATLENG 720 Kinetic Processes in Materials
3 cr. Graduate.
Absolute reaction rate theory, defects in materials, diffusion, phase transformation in metals.
Prerequisites: grad st; MatlEng 442(P).
Current Offerings: http://uwm.edu/schedule

MATLENG 731 Deformation Processing
3 cr. Graduate.
Application of engineering principles to shape generation by deformation processing. Analysis of forging, stamping, drawing. Effect of deformation material properties and behavior.
Prerequisites: grad st; MatlEng 410(P).
Last Taught: Fall 2017, Fall 2004.
Current Offerings: http://uwm.edu/schedule
MATLENG 732 Solidification Processing
3 cr. Graduate.
Solidification phenomena and its engineering application to metals, semiconductors, ceramics, properties of cast products. Foundry processes.
Prerequisites: grad st; Matleng 330(P).
Course Rules: MatEng 732 and MechEng 732 are jointly offered; they count as repeats of each other.
Last Taught: Fall 2016, Fall 2014, Spring 2013, Fall 2008.
Current Offerings: http://uwm.edu/schedule

MATLENG 740 Heterogeneous Equilibria
3 cr. Graduate.
Quantitative description of heterogeneous equilibria for unary, binary, and ternary systems from the thermodynamic point of view; composite systems and current experimental techniques in high temperature materials.
Prerequisites: grad st; MechEng 301(P); MatlEng 201(P).
Last Taught: Fall 2013, Fall 2011, Fall 2009, Spring 2008.
Current Offerings: http://uwm.edu/schedule

MATLENG 750 Thin Solid Films
3 cr. Graduate.
Application of materials science to thin films. Nucleation, growth, and characterization. Discussion of optical, electrical, and mechanical behavior in terms of atomic order and chemistry. Consideration of specific deposition methods and applications.
Prerequisites: grad st; MatlEng 201(P) & Physics 210(P).
Current Offerings: http://uwm.edu/schedule

MATLENG 760 Surface Analysis of Solids
3 cr. Graduate.
Prerequisites: grad st or cons instr.
Current Offerings: http://uwm.edu/schedule

MATLENG 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, Ind Eng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Current Offerings: http://uwm.edu/schedule

MATLENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: grad st.
Course Rules: Fee assessed for 1 cr.
Current Offerings: http://uwm.edu/schedule

MATLENG 890 Advanced Topics in Materials:
3 cr. Graduate.
Lectures on special topics in materials engineering and science.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

MATLENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

MATLENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

MATLENG 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog committee.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nidal Abu-Zahra</td>
<td>Associate Professor, Chair</td>
<td>PhD</td>
<td>Cleveland State University</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>George S. Baker</td>
<td>Professor</td>
<td>PhD</td>
<td>Georgia Institute of Technology</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Benjamin Church</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Carnegie Mellon University</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Changsoo Kim</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
<td>✔</td>
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</tr>
<tr>
<td>Hugo F. Lopez</td>
<td>Professor</td>
<td>PhD</td>
<td>Zhejiang University, China</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Joachim P. Neumann</td>
<td>Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Junjie Niu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Pradeep K. Rohatji</td>
<td>Wisconsin Distinguished Professor</td>
<td>ScD</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Materials Engineering, BSE

Everything we use is made of some material or combination of materials. Materials science is involved with all the processes that turn natural resources into useful products that impact all facets of our economy such as aerospace, electronics, transportation, communication, construction, recreation, entertainment and environment.

Concentrations

- Biomaterials
- Materials for energy application
- Materials processing
- Advanced materials characterization
- Metal casting
- Specific courses in ceramics, polymers, composites, and electronic materials

Research

Work with faculty (http://uwm.edu/engineering/classification/faculty/materials-science-engineering) engaged in leading-edge research in areas such as:

- Polymer solar cells
- Materials for advanced drug delivery
- Manufacturing processes
- Structural analysis of aerospace materials
- Materials for energy storage
- Application of nanomaterials in construction
- Self-healing metals and advanced metal-matrix composites

Career Paths

Materials engineers work in a wide range of jobs across diverse industries. Many of today’s significant scientific and technological advances come from materials engineers.

- Research Scientist
- Application Technologist
- Materials and Process Engineer
- Quality Engineer
- Materials Engineering Manager
- Product Engineer
- Geotechnical / Materials Engineer

Accreditation

The materials engineering program is accredited by the Engineering Accreditation Commission of ABET, 415 N. Charles Street, Baltimore, MD 21201, (410) 347-7700.

New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to the First-Year Program. Admission directly to the major is selective.

Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or the Transfer Transition Program based on the number of transfer credits and GPA.

Admission to the Major

Students admitted to the First-Year Program or Transfer Transition Program (Engineering-Intended or Computer Science-Intended) may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.
3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

First-Year students have a maximum of three semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Transfer Transition students have a maximum of two semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Placement Testing

Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in chemistry, English, and math may not be required to take placement tests. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count toward the degree program. Entering students are urged to take their placement exams when scheduled. All placement exams must be completed before beginning coursework in the subject area. Students who place into
precalculus math courses may be asked to participate in an online summer bridge program.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

**Materials Engineering Curriculum**

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in materials engineering is 124. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Admission to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>COMPSCI 240</td>
<td>Introduction to Engineering Programming</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
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</table>

**Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATLENG 330</td>
<td>Materials and Processes in Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 402</td>
<td>Physical Metallurgy</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 410</td>
<td>Mechanical Behavior of Materials</td>
<td>3</td>
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<tr>
<td>MATLENG 411</td>
<td>Materials Laboratory</td>
<td>3</td>
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<td>MATLENG 442</td>
<td>Thermodynamics of Materials</td>
<td>3</td>
</tr>
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<td>MATLENG 443</td>
<td>Transport Phenomena in Materials Processing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 452</td>
<td>Ceramic Materials</td>
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<tr>
<td>MATLENG 453</td>
<td>Polymeric Materials</td>
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<tr>
<td>MATLENG 490</td>
<td>Senior Design Projects I</td>
<td>1</td>
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<tr>
<td>MATLENG 491</td>
<td>Senior Design Projects II</td>
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</table>

**Mathematics Requirement**

Select one of the following Calculus sequences: 10-12

**Sequence 1:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231 &amp; MATH 232 &amp; MATH 233</td>
<td>Calculus and Analytic Geometry I and Calculus and Analytic Geometry II and Calculus and Analytic Geometry III</td>
<td>3</td>
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**Sequence 2:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 221 &amp; MATH 222</td>
<td>Honors Calculus I and Honors Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
<td>4</td>
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</table>

**Chemistry Requirement**

Select one of the following: 5-10

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 105</td>
<td>General Chemistry for Engineering (Suggested)</td>
<td>5</td>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>5</td>
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</table>

**Physics Requirement**

Select one of the following options: 10

**Option 1:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHYSICS 219 &amp; PHYSICS 220</td>
<td>Physics I: Calculus-Based, Studio Format and Physics II: Calculus-Based, Studio Format (recommended)</td>
<td>3</td>
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</table>

**Option 2:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td>3</td>
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<tr>
<td>PHYSICS 210 &amp; PHYSICS 215</td>
<td>Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)</td>
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</table>

**GER Distribution Requirement**

<table>
<thead>
<tr>
<th>Arts</th>
<th>Humanities</th>
<th>Social Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

**English Composition Requirement**

Satisfied by one of the following: 0-6

- Earning a satisfactory score on the English placement test; or
- Earning a grade of C or higher in ENGLISH 102; or
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course; or

**Foreign Language Requirement**

Satisfied by one of the following: 0-8

- Two years of a single foreign language in high school; or
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

1. COMPSCI 151, COMPSCI 202 or COMPSCI 250 may substitute for COMPSCI 240.
2. Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

3. MATH 234 may substitute for ELECENG 234.

**Technical Electives**

24 credits of technical electives are to be selected from the following lists.

**Group A1 Technical Electives (Structure)**

Select at least 2 courses from the following:
as appropriate. Advancement to major status is required for graduation.

Students must maintain an average GPA of at least 2.00 in all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student’s undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor’s degree.

Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four
The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

**Academic Advising**

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

**Program Educational Objectives**

The educational objectives of the undergraduate Materials Engineering Program are:

1. Graduates have successful careers in materials engineering and/or related fields, including graduate education.
2. Graduates utilize their materials engineering knowledge to address contemporary issues for society.
3. Graduates apply their knowledge of materials engineering to problem solving and projects in their chosen field of employment.

**Honors in the College of Engineering and Applied Science**

**Dean's Honor List**

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Joint Programs with Other Campuses**

**Pre-engineering**

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

**Dual Degree Programs**

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.
Joint Programs with Wisconsin Technical Colleges

Gateway Technical College
An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College
An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College
An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

Materials Engineering, Minor
The Materials minor is directed toward students who want to strengthen their background in materials engineering.

Requirements
The 18-credit minor requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATLENG 330</td>
<td>Materials and Processes in Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 402</td>
<td>Physical Metallurgy</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 442</td>
<td>Thermodynamics of Materials</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 3 electives (see below) 9

Total Credits 18

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATLENG 380</td>
<td>Engineering Basis for Materials Selection</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 410</td>
<td>Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 411</td>
<td>Materials Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 431</td>
<td>Welding Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 452</td>
<td>Ceramic Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 453</td>
<td>Polymeric Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 456</td>
<td>Metal Casting Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 457</td>
<td>Engineering Composites</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 461</td>
<td>Environmental Degradation of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 465</td>
<td>Friction and Wear</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 471</td>
<td>Heat Treatment of Materials</td>
<td>3</td>
</tr>
</tbody>
</table>

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667.
MECHANICAL ENGINEERING

Mechanical engineering is one of the broadest and most general fields of engineering. Combining some of the basic elements found in electrical and civil engineering with more in-depth use of mechanical design and thermal science principles, a mechanical engineering education will provide its students with the tools required to solve a wide range of technological problems.

Mechanical engineers work on the design, development, analysis, production, and testing of a wide variety of devices, products, and systems. The devices and systems developed by mechanical engineers can be found in many fields, including energy conversion, power generation, environmental control, manufacturing, materials handling and processing, and transportation and construction equipment.

The mechanical engineering curriculum is based upon fundamental engineering science courses in mechanics, the thermal sciences, mechanical design, and controls. Students also take courses in experimentation, computer-aided engineering, vibrations, and mechatronics. A variety of technical elective courses are also offered. With these courses, a student can either pursue a general mechanical engineering education, or can tailor a program of study towards a concentration in either thermal sciences or mechanical systems.

Mission Statement
The mission of the UWM Mechanical Engineering Department is:

1. To provide quality educational programs for undergraduate and graduate students planning careers in mechanical engineering or related fields.
2. To create and disseminate knowledge through research, publications, and other scholarly activities.
3. To foster a close partnership with industry and government.
4. To engage in professional and academic service activities of value to the University and the community at large.

• Mechanical Engineering, BSE (p. 771)
• Mechanical Engineering, Minor (p. 776)

Mechanical Engineering Courses
MECHENG 101 Computational Tools for Engineers
2 cr. Undergraduate.
Introduction to the use of spreadsheets and equation solvers. Basic engineering and financial applications using these tools.
Prerequisites: Math 231(C) or 221(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 110 Engineering Fundamentals I
4 cr. Undergraduate.
Introduction to engineering disciplines, problem-solving, visualization, technical communication, and data collection and analysis.
Prerequisites: Math 231(C) or Math 225(C), admis to College of Engineering & Applied Science.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 111 Engineering Fundamentals II
4 cr. Undergraduate.
Intermediate problem-solving skills, experimentation, technical communication and introduction to engineering design.
Prerequisites: MechEng 110(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 150 How Things Work: Understanding Technology
3 cr. Undergraduate.
An introductory course that explains the technology that affects our everyday life. Topics include: automobiles, computers, telephone, radio, television, etc.
Prerequisites: none.
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 301 Basic Engineering Thermodynamics
3 cr. Undergraduate.
Basic energy concepts and definitions; First and Second Laws of Thermodynamics; ideal and real gases; thermodynamic properties; introductory cycle analysis.
Prerequisites: Math 233(P) & Physics 209(P).
Current Offerings: http://uwm.edu/schedule

MECHENG 302 Analysis and Modeling of Dynamic Systems
4 cr. Undergraduate.
Modeling and analysis of mechanical, electrical, electromechanical, fluid, and physiological systems; laboratory experiments.
Prerequisites: MechEng 101(P), ElecEng 234(P), and Physics 210(P).
Course Rules: Jointly offered with & counts as repeat of BME 302.
Current Offerings: http://uwm.edu/schedule

MECHENG 305 Introduction to Fluid Mechanics
4 cr. Undergraduate.
Basics of fluid mechanics with applications to engineering problems and with laboratory demonstrations.
Prerequisites: MechEng 301(C); ElecEng 234(P) & Civ Eng 202(P).
Current Offerings: http://uwm.edu/schedule

MECHENG 320 Basic Heat Transfer
4 cr. Undergraduate.
Introduction to conduction, convection and radiation heat transfer; heat exchangers; mass transfer analogies; laboratory experiments.
Prerequisites: jr st; MechEng 301(P).
Current Offerings: http://uwm.edu/schedule

MECHENG 323 Fluid Mechanics Laboratory
1 cr. Undergraduate.
Hands-on experiments involving applications of potential flows, boundary layer flows, gas dynamics, aerodynamics, and fluid power.
Prerequisites: jr st; MechEng 320(P).
Current Offerings: http://uwm.edu/schedule
MECHENG 360 Mechanical Design I
3 cr. Undergraduate.
Kinematic and dynamic analysis of machine members and design applications to linkages, cams, gears, machine balancing and mechanical systems subject to various constraints.
Prerequisites: MechEng 101(P), 111(P); & Civ Eng 202(P).
Current Offerings: [link]

MECHENG 366 Design of Machine Elements
4 cr. Undergraduate.
Design of mechanical components under steady and fatigue loads. Design of columns, shafts, fasteners, springs, bearings, gearing, etc. Mini-design projects.
Prerequisites: MechEng 101(P), 111(P); MatEng 201(P); & Civ Eng 303(P).
Current Offerings: [link]

MECHENG 370 Computer Aided Engineering Laboratory
2 cr. Undergraduate.
Mechanical design and analysis using state of the art CADD, kinematics, and FEA computer tools.
Prerequisites: MechEng 101(P) & 111(P); Civ Eng 202(P) & 303(P); & ElecEng 234(P).
Current Offerings: [link]

MECHENG 402 Thermo-Fluid Engineering
3 cr. Undergraduate.
Analysis and design of systems involving applications of thermodynamics, heat transfer, and fluid mechanics. Applications include heat exchangers, power generation, refrigeration systems, and environmental control.
Prerequisites: MechEng 320(P) & 321(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

MECHENG 405 Product Realization
3 cr. Undergraduate/Graduate.
This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process.
Prerequisites: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.
Course Rules: Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

MECHENG 411 Heat Transfer
3 cr. Undergraduate/Graduate.
Concepts of heat transfer including conduction, convection, and radiation; steady-state and transient conduction; laminar and turbulent convection; phase changes; black-body and real surface radiation; heat exchangers.
Prerequisites: jr st; MechEng 321(P).
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 1987.
Current Offerings: [link]

MECHENG 415 Modern Thermomanufacturing Processes
3 cr. Undergraduate/Graduate.
An introduction to thermal management and techniques applied to chemical vapor deposition, welding, thermal spraying, and machining (cutting and grinding).
Prerequisites: jr st; Civ Eng 303(P), MechEng 321(P) or equiv, or cons instr.
Current Offerings: [link]

MECHENG 420 Intermediate Fluid Mechanics
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MechEng 320(P).
Current Offerings: [link]

MECHENG 423 Applied Fluid Mechanics
3 cr. Undergraduate/Graduate.
Principles of fluid mechanics as applied to elements of fluid machinery, power transmission devices and control systems.
Prerequisites: jr st, MechEng 320 (P).
Current Offerings: [link]

MECHENG 425 Aerodynamics of Wind Turbines
3 cr. Undergraduate/Graduate.
Introductory and intermediate wind turbine aerodynamics; wind and wind turbine interaction in energy transmission.
Prerequisites: jr st; MechEng 320(P) or cons instr.
Current Offerings: [link]

MECHENG 430 Energy Modeling
3 cr. Undergraduate/Graduate.
Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.
Prerequisites: jr st; or cons instr.
Course Rules: Jointly offered with and counts as repeat of ElecEng 430.
Current Offerings: [link]

MECHENG 432 Internal Combustion Engines
3 cr. Undergraduate/Graduate.
Thermodynamic principles of internal combustion engines; cycles, combustion, engine operation; carburation, ignition, performance analysis; engine balancing; super charging.
Prerequisites: jr st; MechEng 301 (P).
Last Taught: Spring 2018, Fall 2016, Spring 2015, Fall 2013.
Current Offerings: [link]

MECHENG 434 Air Conditioning System Design
3 cr. Undergraduate/Graduate.
The design of systems for heating and cooling spaces. Selection and design of central heating, cooling and energy distribution systems.
Prerequisites: jr st; MechEng 321(P), Ind Eng 210(P).
Last Taught: Fall 2014, Spring 2013, Fall 2011, Spring 2010.
Current Offerings: [link]
MECHENG 435 Power Plant Theory and Design
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MechEng 301 (P).
Last Taught: Spring 2017, Fall 2015, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MECHENG 436 Solar Engineering
3 cr. Undergraduate/Graduate.
Estimation of energy needs for solar heating and cooling systems for buildings; insolation; solar collector/energy storage design; applications to space heating/cooling, water heating.
Prerequisites: jr st; MechEng 301 (P).
Last Taught: Spring 2016, Fall 2014, Spring 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MECHENG 438 Mechanical Engineering Experimentation
3 cr. Undergraduate.
Training and understanding data acquisition systems; experiment planning; sensor calibration; professional report writing and communication; industrial projects.
Prerequisites: sr st or cons instr; ElecEng 301 (P); Ind Eng 467 or MthStat 467 (P); MechEng 321 (P), 360 (P), 366 (P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 451 Applied Optics in Engineering
3 cr. Undergraduate/Graduate.
Principles of geometric and physical optics. Introduction to lasers. Topics from current engineering uses of optics, including measurement systems and laser machining.
Prerequisites: sr st; Physics 210 (P) or cons instr.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

MECHENG 455 Processing of Plastics
3 cr. Undergraduate/Graduate.
Description of plastics as polymers and polymer composites. Study of various technologies to manufacture plastics. Analytical description of flow and heat transfer in polymers.
Prerequisites: MechEng 320 (P) & 321 (P).
Last Taught: Fall 2016, Spring 2015, Fall 2012, Fall 2009.
Current Offerings: http://uwm.edu/schedule

MECHENG 456 Metal Casting Engineering
3 cr. Undergraduate/Graduate.
Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.
Prerequisites: jr st; MatlEng 201 (P).
Course Rules: MechEng 456 and MatlEng 456(421) are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MECHENG 457 Engineering Composites
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; MatlEng 201 (P).
Course Rules: MechEng 457 and MatlEng 457(455) are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

MECHENG 460 Nanomaterials and Nanomanufacturing
3 cr. Undergraduate/Graduate.
Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology.
Prerequisites: jr st; MechEng 201 (P).
Course Rules: MechEng 460 & MatlEng 460 are jointly offered; they count as repeats of each other.
Current Offerings: http://uwm.edu/schedule

MECHENG 462 Intermediate Design of Machinery
3 cr. Undergraduate/Graduate.
Consideration of complicated loadings and combined stresses. Design against fatigue. Design and analysis of machine systems. Consideration of special topics in machine element design.
Prerequisites: jr st; MechEng 366 (P).
Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MECHENG 463 Introduction to Finite Elements
3 cr. Undergraduate/Graduate.
Generation and assembly of finite element matrices in one and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow.
Prerequisites: jr st; ElecEng 234 (P), Civ Eng 303 (P); MechEng 320 (C), 311 (C) or 321 (C).
Course Rules: Not open to students with cr in Civ Eng 463 (ER).
Current Offerings: http://uwm.edu/schedule

MECHENG 465 Friction and Wear
3 cr. Undergraduate/Graduate.
Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement.
Prerequisites: jr st; MatlEng 201 (P).
Course Rules: Not open to students who have cr in MatlEng 465, which is identical to MechEng 465.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule
MECHENG 466 Mechanics of Composite Materials
3 cr. Undergraduate/Graduate.
Basic concepts, materials, and characteristics of composites. Micromechanics and Macromechanics of Elastic Response. Failure, design and optimization of composite structures.
Prerequisites: jr st & Civ Eng 203(P)
Course Rules: MechEng 466 & Civ Eng 466 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

MECHENG 469 Introduction to Biomechanical Engineering
3 cr. Undergraduate/Graduate.
Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.
Prerequisites: Civ Eng 202(P) & 303(P), or cons instr.
Course Rules: MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

MECHENG 472 Introduction to Wind Energy
3 cr. Undergraduate/Graduate.
Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.
Prerequisites: jr st, or cons instr.
Course Rules: MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MECHENG 473 Applied Dynamics
3 cr. Undergraduate/Graduate.
Application of dynamic principles to a variety of engineering situations. Behavior of particle systems and rigid body motion in space. Analysis of traffic accidents, shock machines, rockets and satellites, missiles and projectiles, dynamic balancing, gyroscopes and inertial navigation.
Prerequisites: jr st & Civ Eng 202(P).
Current Offerings: http://uwm.edu/schedule

MECHENG 474 Introduction to Control Systems
4 cr. Undergraduate/Graduate.
Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.
Prerequisites: sr st, ElecEng 301(P); a grade of C or better in ElecEng 234(P) & Civ Eng 202(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 475 Vibrations in Mechanical Design
3 cr. Undergraduate/Graduate.
Integrated treatment of mathematical modeling and analysis of mechanical systems, analysis of vibrations and performance under different loading conditions.
Prerequisites: sr st; Civ Eng 202(P), ElecEng 234(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MECHENG 476 Introduction to Robotics
3 cr. Undergraduate/Graduate.
Fundamentals of manipulators, sensors, actuators, end-effectors and product design for automation, computer vision and pattern recognition.
Prerequisites: ElecEng 234(P), MechEng 360(P).
Current Offerings: http://uwm.edu/schedule

MECHENG 479 Control and Design of Mechatronic Systems
3 cr. Undergraduate/Graduate.
Understanding interfacing of mechanical systems using electromechanical components; conceptual design and analysis of high performance computer controlled mechanical systems; prototyping of mechatronic systems.
Prerequisites: sr st or cons instr; ElecEng 474(402)(P) or MechEng 474(P).
Current Offerings: http://uwm.edu/schedule

MECHENG 490 Topics in Mechanical Engineering:
1-3 cr. Undergraduate/Graduate.
Recent theoretical and applied topics in mechanical engineering.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken with change in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 495 Biomedical Instrumentation Laboratory
3 cr. Undergraduate.
Characteristics of measurement systems, experiment planning, sensor and system calibration, measurement of basic quantities, first and second order systems, data acquisition and processing, experimental projects.
Prerequisites: BME 325 (P), MechEng 469 (C).
Course Rules: BME 495 and MechEng 495 are jointly offered and count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

MECHENG 496 Senior Design Project
3 cr. Undergraduate.
Engineering design project in a simulated industrial environment. Student design team works on a problem in collaboration with college faculty and vendors. Formal report writing.
Prerequisites: MechEng 321(P), 360(P), 366(P), & 370(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 542 Introduction to Technology Entrepreneurship
3 cr. Undergraduate.
Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.
Course Rules: Counts as repeat of Bus Adm 495 or Mech Eng 490 with same topic. Jointly offered with & counts as repeat of Bus Adm 542.
Last Taught: Fall 2014.
Current Offerings: http://uwm.edu/schedule
MECHENG 543 Introduction to Technology Management and Innovation
3 cr. Undergraduate.
Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.
Course Rules: Counts as repeat of Bus Adm 495 with same topic. Jointly offered with & counts as repeat of Bus Adm 543.
Last Taught: Fall 2014.
Current Offerings: http://uwm.edu/schedule

MECHENG 544 New Product Development
3 cr. Undergraduate/Graduate.
Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as repeat of Bus Adm 795 with same topic; Jointly offered with & counts as repeat of Bus Adm 544.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

MECHENG 546 Global Innovation Management
3 cr. Undergraduate/Graduate.
Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.
Prerequisites: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.
Course Rules: Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of Bus Adm 546.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 548 Technology Venturing Project
3 cr. Undergraduate.
A capstone course for students to demonstrate their knowledge and skills related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures.
Prerequisites: jr st & admis to Tech Entrep Cert program or admis to business or engineering major; Bus Adm/Mech Eng 542(P).
Course Rules: Jointly offered with & counts as repeat of Bus Adm 548.
Current Offerings: http://uwm.edu/schedule

MECHENG 574 Intermediate Control Systems
3 cr. Undergraduate/Graduate.
State space; frequency domain methods of modeling, analysis and design of control systems; digital control; and multivariate systems.
Prerequisites: sr st; MechEng 474(P) or ElecEng 474(402)(P); or grad st.
Course Rules: ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 503(ER).
Current Offerings: http://uwm.edu/schedule

MECHENG 584 Biodynamics of Human Motion
3 cr. Undergraduate/Graduate.
Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab.
Prerequisites: jr st; ElecEng 234(P); Civ Eng 202(C).
Last Taught: Spring 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

MECHENG 699 Independent Study
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; cons instr.
Course Rules: Limited to max of 6 cr applied toward undergrad degree.
Current Offerings: http://uwm.edu/schedule

MECHENG 700 CEAS Graduate Seminar
1-3 cr. Graduate.
Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.
Prerequisites: grad st
Course Rules: Civ Eng 700, CompSci 700, ElecEng 700, Ind Eng 700, MatlEng 700 & MechEng 700 are jointly offered and count as repeats of one another
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 701 Advanced Linear System Analysis
3 cr. Graduate.
Theory and analysis of linear dynamic systems; discrete and continuous state models; linear algebra for dynamic systems; state transition matrix, numerical methods; and applications.
Prerequisites: grad st
Course Rules: ElecEng 701 & MechEng 701 are jointly offered and count as repeats of one another.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MECHENG 702 Advanced Engineering Thermodynamics
3 cr. Graduate.
Laws of thermodynamics, property relations, equations of state; introduction to statistical and irreversible thermodynamics; applications to perfect gases, perfect crystals, and homogeneous solutions.
Prerequisites: grad st; MechEng 301(P) & 321(P) or equiv.
Current Offerings: http://uwm.edu/schedule

MECHENG 703 Principles of Combustion
3 cr. Graduate.
Chemical kinetics and thermodynamics, conservation equations for multicomponent reacting systems, detonation, premix, diffusion and turbulent flames.
Prerequisites: grad st; MechEng 302(P) & 321(P) or equiv.
Current Offerings: http://uwm.edu/schedule
MECHENG 706 Continuum Mechanics
3 cr. Graduate.
Basic concepts of the continuum models used in the various fields of mechanics including fluid mechanics, rheology, elasticity, fracture mechanics, and plasticity.
Prerequisites: grad st.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

MECHENG 707 Transport in Porous Media
3 cr. Graduate.
Introduction to fluid mechanics in porous media, single- and multi-phase flows, volume averaged transport equations, convection heat transfer, consolidating porous media, volume averaging theory, applications.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

MECHENG 710 Advanced Transport Processes
2 cr. Graduate.
Vector and tensor analysis of practical engineering problems; basic laws of mass, momentum and energy transport; transport phenomena in porous media reacting and non-reaction media.
Prerequisites: MechEng 321(P) or equiv.
Last Taught: Spring 2018, Fall 2016, Fall 2014, Fall 2009.
Current Offerings: http://uwm.edu/schedule

MECHENG 711 Thermal Radiation and Conduction
3 cr. Graduate.
Radiative properties of and radiative transfer in absorbing, emitting and scattering media; transient and steady state heat conduction; multi-mode heat transfer applications.
Prerequisites: grad st; MechEng 311(P) or 321(P).
Last Taught: Fall 2014, Spring 2013, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

MECHENG 712 Convection Heat and Mass Transfer
3 cr. Graduate.
Conservation equations; laminar developed and developing flows; laminar boundary layers; high speed flows; turbulent flow and heat transfer; natural convection; mass transfer; special engineering applications.
Prerequisites: grad st; MechEng 311(P) or 321(P).
Last Taught: Fall 2016, Spring 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

MECHENG 714 Energy Transport in Microscale Systems
3 cr. Graduate.
Introducing thermophysics of microscale systems including statistical, non-equilibrium thermodynamics, particle transport theory, energy carriers in different materials and phases, and applications including mems and nanotechnology.
Prerequisites: grad st; Mecheng 320(P) & 321(P).
Last Taught: Fall 2001.
Current Offerings: http://uwm.edu/schedule

MECHENG 715 Numerical Methods in Engineering
3 cr. Graduate.
Differential equation solutions with finite difference and finite volume methods; grid generation technique; finite element methods; applications to solid mechanics, heat transfer, and fluid mechanics.
Prerequisites: grad st; Math 413(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

MECHENG 716 Nonlinear Control Systems
3 cr. Graduate.
Advanced concepts and methodologies in modeling and design of nonlinear control systems. Lyapunov theory; describing functions; variable structure control.
Prerequisites: grad st; ElecEng or MechEng 474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 718 & MechEng 718 are jointly offered and count as repeats of one another. Not open for credit to students w/ cr in MechEng 778.
Last Taught: Fall 2016, Fall 2010, Spring 2007, Fall 2001.
Current Offerings: http://uwm.edu/schedule

MECHENG 721 Fundamentals of Fluid Flow
3 cr. Graduate.
Inviscid, viscous and compressible flow; potential flow in aerodynamics; analytical solutions of navier-stokes equation; laminar and turbulent boundary layers, jets, wakes, and separating flows; applications.
Prerequisites: grad st; MechEng 320(P).
Current Offerings: http://uwm.edu/schedule

MECHENG 722 Advanced Fluid Mechanics
3 cr. Graduate.
Formulations of navier-stokes and energy equations; turbulence models; solutions to wall, free shear layer, and recirculating flows; turbulence energy spectrum; applications to industrial problems.
Prerequisites: grad st; MechEng 320(P).
Current Offerings: http://uwm.edu/schedule

MECHENG 723 Computational Fluid Dynamics and Heat Transfer
3 cr. Graduate.
Finite difference methods for solving boundary layer equations, navier-stokes equations, etc. Laminar and turbulent flows.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

MECHENG 725 Fluid Power and Turbomachinery
2 cr. Graduate.
Concept of hydraulic systems; hydraulic motors; valves; hydraulic circuits; pneumatic systems; axial and radial gas turbines, pumps, compressors; steam turbines; hydraulic turbines; wind turbines.
Prerequisites: grad st; MechEng 320(P).
Last Taught: Fall 2017, Spring 2016, Fall 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

MECHENG 726 Mechanical Vibrations
3 cr. Graduate.
Free and forced vibrations of multiple degree of freedom systems using modern matrix methods.
Prerequisites: grad st; MechEng 475(R) or equiv.
Course Rules: Not open to students who have cr in Civ Eng 726 which is identical to Mecheng 726.
Last Taught: Spring 2015, Spring 2013, Fall 2011, Spring 2009.
Current Offerings: http://uwm.edu/schedule
MECHENG 732 Solidification Processing
3 cr. Graduate.
Solidification phenomena and its engineering application to metals, semiconductors, ceramics, properties of cast products. Foundry processes.
Prerequisites: grad st; MatlEng 330(P).
Course Rules: MechEng 732 and MatlEng 732 are jointly offered; they count as repeats of each other.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

MECHENG 733 Sensors and Systems
3 cr. Graduate.
Physical principles and working of sensors, interfacing, and sensor networks.
Prerequisites: grad st; ElecEng 305 or cons. instr.; Jointly offered with & Counts as repeat of BME 733 & ElecEng 733.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

MECHENG 760 Dynamic Problems in Design
3 cr. Graduate.
Analytical methods for solution of typical vibrating and balancing problems encountered in mechanical systems. Special emphasis on methods of suppression and control.
Prerequisites: grad st; MechEng 360(P).
Last Taught: Fall 2017, Spring 2016, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MECHENG 762 Mechanical Systems Analysis
3 cr. Graduate.
An integrated treatment of mathematical modeling and analysis of mechanical systems. Modeling of machine elements and systems; performance under transient, periodic and random loads.
Prerequisites: grad st; MechEng 365(P).
Current Offerings: http://uwm.edu/schedule

MECHENG 765 Mechanical Reliability and Probabilistic Design
3 cr. Graduate.
Advanced design theory and methodology incorporating probabilistic and statistical concepts. Design of mechanical and structural members for specific reliability and confidence level. Case histories and applications.
Prerequisites: grad st; MechEng 360(P) & 365(P); or cons instr.
Last Taught: Spring 2016, Fall 2014, Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

MECHENG 773 Advanced Dynamics
3 cr. Graduate.
General theory of dynamic behavior from the viewpoint of Lagrangian and Hamiltonian mechanics. Application of energy principles to dynamical analysis of mechanical systems.
Prerequisites: grad st; MechEng 580(P) or Civ Eng 580(P); or cons instr.
Course Rules: Not open to students who have cr in Civ Eng 773, which is identical.
Current Offerings: http://uwm.edu/schedule

MECHENG 785 Optimization Methods in Engineering
3 cr. Graduate.
Optimization as engineering design tool; nonlinear programming; computational techniques for unconstrained and constrained problems; conjugate gradient, sumt, reduced gradient, feasible directions methods; design applications.
Prerequisites: grad st; ElecEng 234(P), CompSci 151(P) or equiv.
Course Rules: Not open to students who have cr in Ind Eng 785 which is identical to MechEng 785.
Last Taught: Fall 2016, Spring 2015, Fall 2013, Spring 2011.
Current Offerings: http://uwm.edu/schedule

MECHENG 816 Optimal Control Theory
3 cr. Graduate.
Analysis and synthesis of discrete and continuous optimal control systems; linear quadratic regulators; dynamic programming and variational methods; applications.
Prerequisites: grad st; ElecEng or MechEng 474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 816 & MechEng 816 are jointly offered and count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

MECHENG 819 Adaptive Control Theory
3 cr. Graduate.
Adaptive control systems including mathematical foundations, estimation, model reference adaptive control, self tuning regulators, numerical methods, applications.
Prerequisites: grad st; ElecEng or MechEng 474(P) or equiv; ElecEng or MechEng 701(P); or cons instr.
Course Rules: ElecEng 819 & MechEng 819 are jointly offered and count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

MECHENG 880 Bioengineering Seminar
1 cr. Graduate.
Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.
Prerequisites: grad st.
Course Rules: MechEng 880, ElecEng 880, CompSci 880, MatlEng 880, Ind Eng 880 & Civ Eng 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr. max.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MECHENG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule
MECHENG 890 Advanced Topics in Mechanical Engineering:
1-3 cr. Graduate.
Recent theoretical and applied developments in mechanical engineering.
Topics selected from areas in thermal-fluid engineering, machine design
and controls, and chemical process engineering.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MECHENG 990 Masters Thesis
1-9 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

MECHENG 998 Doctoral Thesis
1-12 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog comm.
Current Offerings: http://uwm.edu/schedule

MECHENG 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; cons instr & grad prog committee.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryoichi S. Amano</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Davis</td>
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<tr>
<td>Illya Avdeev</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Pittsburgh</td>
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<tr>
<td>Robert T. Balmer</td>
<td>Professor</td>
<td>ScD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>S. H. Chan</td>
<td>Professor</td>
<td>PhD</td>
<td>Inha University</td>
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<tr>
<td>Woo-Jin Chang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota - Twin Cities</td>
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<tr>
<td>Junhong Chen</td>
<td>UWM Distinguished Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Roshan D’Souza</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Purdue University</td>
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<tr>
<td>Anoop K. Dhingra</td>
<td>Associate Professor, Chair</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Andrew Dressel</td>
<td>Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Kenneth F. Neusen</td>
<td>Professor</td>
<td>PhD, PE</td>
<td>Northeastern University</td>
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<tr>
<td>Michael Nosonosky</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Purdue University</td>
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<tr>
<td>Ronald A. Perez</td>
<td>Associate Professor</td>
<td>PhD, PE</td>
<td>University of Delaware</td>
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<tr>
<td>Krishna Pillai</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Ottawa, Canada</td>
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<tr>
<td>Deyang Qu</td>
<td>Professor, Johnson Controls</td>
<td>PhD</td>
<td>University of California, Canada</td>
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<tr>
<td>Mohammad H. Rahman</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Purdue University</td>
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<tr>
<td>John R. Reisel</td>
<td>Professor</td>
<td>PhD, PE</td>
<td>University of Illinois at Chicago</td>
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<tr>
<td>Kevin J. Renken</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Stanford University</td>
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<tr>
<td>Nathan Salowitz</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>Yongjin Sung</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>Keh C. Tsao</td>
<td>Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>Mohamed Yahiaoui</td>
<td>Lecturer</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Chris Yingchun Yuan</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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</tbody>
</table>

Mechanical Engineering, BSE

Mechanical engineering is one of the most general engineering fields. The engineer has the freedom to deal with virtually any aspect of the multi-faceted engineering process such as design, development, analysis, production and testing. The broad nature of the field also provides opportunities to work in various areas of interest ranging from energy conversion or environmental control to the production of transportation and construction equipment.

Concentrations

- General mechanical engineering
- Thermal sciences
- Mechanical systems

Research

Work with faculty engaged in leading-edge research in areas such as:

- Design optimization
- Nanotribology
- Technology innovation and entrepreneurship
- Sustainable design and manufacturing
• Marine robotics
• Biomimetic surfaces

Career Paths
Materials engineers work primarily in engineering services, research and development, manufacturing and the federal government.

• Senior Mechanical Engineer
• Propulsion Engineer
• Process Engineer
• Mechanical Design Engineer
• Product Development Engineer
• Aerospace Structural Engineer

Accreditation
The mechanical engineering program is accredited by the Engineering Accreditation Commission of ABET, 415 N. Charles Street, Baltimore, MD 21201, (410) 347-7700.

New Freshmen
Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Freshmen applicants will be considered for admission directly to the major or to the First-Year Program. Admission directly to the major is selective.

Transfer Students
Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Transfer applicants will be considered for admission directly to the major or the Transfer Transition Program based on the number of transfer credits and GPA.

Admission to the Major
Students admitted to the First-Year Program or Transfer Transition Program (Engineering-Intended or Computer Science-Intended) may apply for major status with their academic advisor at the time they believe they meet the requirements. The program may impose major status as a prerequisite for courses numbered 200 or above.

1. Complete first semester calculus with a C or better grade.
2. Complete GER Oral and Written Communication Part A.

3. Engineering majors must complete Chem 100 with a C or better grade (or satisfactory score on the placement test). Computer Science majors must complete CompSci 251 with a C or better grade.
4. Obtain a minimum grade point as set by the major department. A 3.00 GPA guarantees admission to any CEAS major.
5. Courses required by the major may be repeated only once. No more than two courses may be repeated.

First-Year students have a maximum of three semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Transfer Transition students have a maximum of two semesters to complete the admission to major requirements. Part-time students may be granted an extension by their academic advisor.

Placement Testing
Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in chemistry, English, and math may not be required to take placement tests. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count toward the degree program. Entering students are urged to take their placement exams when scheduled. All placement exams must be completed before beginning coursework in the subject area. Students who place into precalculus math courses may be asked to participate in an online summer bridge program.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

Mechanical Engineering Curriculum
The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in Mechanical Engineering is 128. Engineering students may apply for major status with their academic advisor at any time they believe they meet the requirements. Advancement to major is a graduation requirement. Programs may impose major status as a prerequisite for courses numbered 200 or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
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<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
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<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
<td>4</td>
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<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
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<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
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<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
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<tr>
<td>MECHENG 101</td>
<td>Computational Tools for Engineers</td>
<td>2</td>
</tr>
<tr>
<td>MECHENG 110</td>
<td>Engineering Fundamentals I</td>
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<tr>
<td>MECHENG 111</td>
<td>Engineering Fundamentals II</td>
<td>4</td>
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<tr>
<td>MECHENG 301</td>
<td>Basic Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 320</td>
<td>Introduction to Fluid Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MECHENG 321</td>
<td>Basic Heat Transfer</td>
<td>4</td>
</tr>
<tr>
<td>IND ENG 367</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
</tr>
</tbody>
</table>
MATLENG 330  Materials and Processes in Manufacturing  3
MECHENG 323  Fluid Mechanics Laboratory  1
MECHENG 360  Mechanical Design I  3
MECHENG 366  Design of Machine Elements  4
MECHENG 370  Computer Aided Engineering Laboratory  2
MECHENG 348  Mechanical Engineering Experimentation  3
MECHENG 474  Introduction to Control Systems  4
MECHENG 479  Control and Design of Mechatronic Systems  3
MECHENG 405  Product Realization  3
or MECHENG 496  Senior Design Project  
Mathematics Requirement  1
Select one of the following Calculus sequences:  10-12
Sequence 1:
MATH 231  Calculus and Analytic Geometry I  
& MATH 232  and Calculus and Analytic Geometry II  
& MATH 233  and Calculus and Analytic Geometry III  
Sequence 2:
MATH 221  Honors Calculus I  
& MATH 222  and Honors Calculus II  
ELECENG 234  Analytical Methods in Engineering  4
Chemistry Requirement
Select one of the following:  1 5-10
CHEM 105  General Chemistry for Engineering (Suggested)  
CHEM 102  and General Chemistry and Qualitative Analysis  
& CHEM 104  
Physics Requirement
PHYSICS 209  Physics I (Calculus Treatment)  5
& PHYSICS 214  and Lab Physics I (Calculus Treatment)  
PHYSICS 210  Physics II (Calculus Treatment)  5
& PHYSICS 215  and Lab Physics II (Calculus Treatment)  
GER Distribution Requirement
Arts  3
Humanities  3
Social Science  6
ENGLISH 310  Writing, Speaking, and Technoscience in the 21st Century  3
Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement  
English Composition Requirement
Satisfied by one of the following:  1 0-6
Earning a satisfactory score on the English placement test; or
Earning a grade of C or higher in ENGLISH 102; or
Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course; or
Foreign Language Requirement
Satisfied by one of the following:  0-8
Two years of a single foreign language in high school; or
Two semesters of a single foreign language in college; or
Demonstrate ability by examination.

Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above.

Technical Electives
Select a minimum of 15 credits of technical electives from Groups A, B, and C as indicated below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MECHENG 402</td>
<td>Thermo-Fluid Engineering</td>
<td>6-9</td>
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<tr>
<td>MECHENG 420</td>
<td>Intermediate Fluid Mechanics</td>
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<tr>
<td>MECHENG 462</td>
<td>Intermediate Design of Machinery</td>
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<tr>
<td>MECHENG 463</td>
<td>Introduction to Finite Elements</td>
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<tr>
<td>MECHENG 475</td>
<td>Vibrations in Mechanical Design</td>
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Group A Technical Electives
Select at least 6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>CIV ENG 401</td>
<td>Intermediate Strength of Materials</td>
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<tr>
<td>IND ENG 455</td>
<td>Operations Research I</td>
<td></td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
<td></td>
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<tr>
<td>MATH 601</td>
<td>Advanced Engineering Mathematics I</td>
<td></td>
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<tr>
<td>MATLENG 380</td>
<td>Engineering Basis for Materials Selection</td>
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</tr>
<tr>
<td>MATLENG 410</td>
<td>Mechanical Behavior of Materials</td>
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</tr>
<tr>
<td>MECHENG 405</td>
<td>Product Realization 1</td>
<td>1</td>
</tr>
<tr>
<td>MECHENG 411</td>
<td>Heat Transfer</td>
<td></td>
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<tr>
<td>MECHENG 415</td>
<td>Modern Thermomanufacturing Processes</td>
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<tr>
<td>MECHENG 423</td>
<td>Applied Fluid Mechanics</td>
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<tr>
<td>MECHENG 425</td>
<td>Aerosdynamics of Wind Turbines</td>
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<tr>
<td>MECHENG 430</td>
<td>Energy Modeling</td>
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<tr>
<td>MECHENG 432</td>
<td>Internal Combustion Engines</td>
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<tr>
<td>MECHENG 434</td>
<td>Air Conditioning System Design</td>
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<tr>
<td>MECHENG 435</td>
<td>Power Plant Theory and Design</td>
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<tr>
<td>MECHENG 436</td>
<td>Solar Engineering</td>
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<tr>
<td>MECHENG 455</td>
<td>Processing of Plastics</td>
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<tr>
<td>MECHENG 456</td>
<td>Metal Casting Engineering</td>
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<tr>
<td>MECHENG 457</td>
<td>Engineering Composites</td>
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<tr>
<td>MECHENG 460</td>
<td>Nanomaterials and Nanomanufacturing</td>
<td></td>
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<tr>
<td>MECHENG 465</td>
<td>Friction and Wear</td>
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<tr>
<td>MECHENG 466</td>
<td>Mechanics of Composite Materials</td>
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<tr>
<td>MECHENG 469</td>
<td>Introduction to Biomechanical Engineering</td>
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<tr>
<td>MECHENG 472</td>
<td>Introduction to Wind Energy</td>
<td></td>
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<tr>
<td>MECHENG 476</td>
<td>Introduction to Robotics</td>
<td></td>
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<tr>
<td>MECHENG 490</td>
<td>Topics in Mechanical Engineering</td>
<td></td>
</tr>
<tr>
<td>MECHENG 574</td>
<td>Intermediate Control Systems</td>
<td></td>
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Group B Technical Electives
Select at least 6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ELECENG 234</td>
<td>Analytical Methods in Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>
Students wishing to major in more than one field can do so in two ways:

**Dual Majors**

Students may earn a degree in more than one major. Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation. Students who earn 3 or more credits of Co-op may use 3 of those credits as approved Free Technical Electives.

**Concurrent Registration at Other Institutions**

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

**Student Academic Appeals**

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services.

**Minimum Requirements**

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student’s major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student’s undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

**Dual Majors**

Students wishing to major in more than one field can do so in two ways:
Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student’s area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

Program Educational Objectives

The educational objectives of the undergraduate Mechanical Engineering Program are:

1. Graduates have a successful professional career in Mechanical Engineering or related fields.
2. Graduates apply their knowledge of mechanical engineering to problem solving in their field of employment.
3. Graduates are recognized as creative problem solvers and effective communicators.
4. Graduates are successfully engaged in continued professional development.

Honors in the College of Engineering and Applied Science

Dean’s Honor List

GPA of 3.500 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Joint Programs with Other Campuses

Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor’s degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

Milwaukee Area Technical College

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.
Mechanical Engineering, Minor

The minor in mechanical engineering is designed for students in engineering, architecture, and physics. The minor is not available to mechanical engineering majors.

Requirements

• 20 credits from Mechanical Engineering courses 301 and above.
• Minimum of 12 credits of the minor coursework must be completed at UWM.
• If a bachelor’s degree was obtained at another institution, upon completion of the minor requirements the student will be awarded a Certificate of Minor.
FRESHWATER SCIENCES  
(SCHOOL OF)

About Freshwater Sciences
The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Freshwater Policy and Economics

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic, and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills, and experience to anticipate and address the freshwater issues of the future.

Departments and Programs
- Applied Urban Aquaculture, Undergraduate Certificate (p. 782)
- Freshwater Sciences and Technology, MS (Thesis) (p. 784)
- Freshwater Sciences and Technology, MS: Professional Science Track (p. 786)
- Freshwater Sciences, PhD (p. 788)

Freshwater Sciences
FRSHWTR 190 Topics in Freshwater Sciences:
1-3 cr. Undergraduate.
Current issues in freshwater sciences for undergraduates.
Prerequisites: none, except as may be required for specific topics.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

FRSHWTR 191 Great Lakes Ecology
3 cr. Undergraduate.
A select history of Great Lakes ecosystem change.
Prerequisites: none.
Course Rules: Counts as repeat of Frshwtr 190 with similar topic.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 461 Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for global sustainability.
Prerequisites: jr st; CES 210(P) or cons instr.
Course Rules: CES 461, Frshwtr 461, & Global 461 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 464 Chemical Hydrogeology
3 cr. Undergraduate/Graduate.
Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. Lec, lab.
Prerequisites: jr st; Chem 102(P)
Course Rules: Frshwtr 464 & Geo Sci 464 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 496 UROP Apprenticeship, Upper-Level
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Spring 2017, Fall 2013.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: UWinteriM 2012.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 498 Undergraduate Research
1-3 cr. Undergraduate.
Undergraduate research on faculty-supervised research projects.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 502 Aquatic Ecosystem Dynamics
3 cr. Undergraduate/Graduate.
Interdisciplinary, quantitative approach to understanding large lake dynamic processes, including geological formation, hydrology, hydrodynamics, chemistry and the dynamics of plankton and fish communities.
Prerequisites: jr st; 1 sem calculus or algebra; 2 sem Physics, Chem, or Bio Sci; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
FRSHWTR 504 Quantitative Freshwater Analysis
3 cr. Undergraduate/Graduate.
A fundamental set of tools for the quantitative analysis of environmental
data sets, with an emphasis on the calculation of reservoirs, residence
times and rates in aquatic systems.
Prerequisites: jr st; 1 sem calculus, Physics, Chem, & Bio Sci; or cons
instr.
Last Taught: Spring 2018, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 506 Environmental Health of Freshwater Ecosystems
3 cr. Undergraduate/Graduate.
The influences of human-induced environmental change on the health of
freshwater ecosystems and humans who interact with these systems.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 508 Aquatic Technologies
3 cr. Undergraduate/Graduate.
Interdisciplinary perspective on the function, application and
development of technologies used in the aquatic sciences.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 510 Economics, Policy and Management of Water
3 cr. Undergraduate/Graduate.
The impact of economics, policy and management decisions on our
freshwater resources and how science and economics affect these
decisions.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 511 Ichthyology
3 cr. Undergraduate/Graduate.
The diverse biology of fishes focusing on behavioral, biomechanical,
genetic, and physiological adaptations to diverse ecological systems.
Prerequisites: jr st; grade of C or better in Bio Sci 310(P); or cons instr.
Course Rules: Bio Sci 511 & Frshwr 511 are jointly offered; they count as
repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 512 Freshwater Sciences Practicum:
2-4 cr. Undergraduate/Graduate.
Diverse opportunities for practical, hands-on experience in the practice
of freshwater science with emphasis on team work, problem solving, field
work, and dissemination of results.
Prerequisites: jr st, Frshwr 502(P) & 504(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 513 Field Experimentation and Analysis in Freshwater
Sciences
3 cr. Undergraduate/Graduate.
Student acquisition of comprehensive investigative procedures
in freshwater ecology focusing on field and laboratory interactive
assignments.
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P); or grad st.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 514 Analytical Techniques in Freshwater Sciences
3 cr. Undergraduate/Graduate.
Modern analytical techniques and genomics principles and methods in
freshwater sciences.
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P); or grad st.
Course Rules: Counts as repeat of Frshwr 650 w/same topic.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 522 Aquatic Organic Biogeochemistry
3 cr. Undergraduate/Graduate.
Fluxes and biogeochemical cycling pathways of dissolved, colloidal and
particulate organic matter across interfaces in aquatic systems.
Prerequisites: jr st & 1 sem Chem; or cons instr.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 524 Aquatic Isotope Biogeochemistry
3 cr. Undergraduate/Graduate.
Principles and applications of stable and radioactive isotopes and other
biogeochemical tracers in aquatic environments.
Prerequisites: jr st.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 562 Principles of Aquaculture Systems
3 cr. Undergraduate/Graduate.
Physical and chemical aspects of intensive & recirculating operations of
aquaculture production systems.
Prerequisites: jr st; BioSci 152 (P); Chem 104(P); Math 116(P).
Current Offerings: http://uwm.edu/schedule

FRSHWTR 563 Finfish Aquaculture and Nutrition Principles
3 cr. Undergraduate/Graduate.
Principles of aquaculture and fish nutrition; emphasis on Great Lakes;
future challenges to aquaculture development in North America.
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P).
Last Taught: Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 564 Water Quality in Aquaculture
3 cr. Undergraduate/Graduate.
Principles of water chemistry & microbial conversion of nutrients;
microorganisms that impact fish health; for successful operation of
intensive aquaculture operations.
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P).
Current Offerings: http://uwm.edu/schedule
FRSHWTR 565 Fish Health
3 cr. Undergraduate/Graduate.
Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.
Prerequisites: jr st, Bio Sci 152(P); Chem 104(P).
Current Offerings: http://uwm.edu/schedule

FRSHWTR 584 Aquatic Ecosystem Services Valuation
3 cr. Undergraduate/Graduate.
Economic theory and methods in valuing aquatic and related terrestrial ecosystems.
Prerequisites: jr st.
Course Rules: Counts as repeat of Frshwtr 650 with same topic.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 560 Sequence Analysis
3 cr. Undergraduate/Graduate.
Molecular biology underlying nucleic and amino acid analyses and the tools available to conduct comparative sequence analysis.
Prerequisites: jr st, BIO SCI 152(P), BIO SCI 325(P), & CHEM 104(P); or grad st.
Course Rules: Counts as repeat of Frshwtr 512 with similar topic.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 650 Topics in Freshwater Sciences:
1-3 cr. Undergraduate/Graduate.
Current issues in freshwater sciences.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 690 Undergraduate Seminar in Freshwater Sciences:
1-3 cr. Undergraduate.
Seminar on topics of current interest in freshwater sciences.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 695 Independent Study in Freshwater Sciences for Biological Sciences Students
1-3 cr. Undergraduate.
Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science.
Prerequisites: jr st; Bio Sci 325 (P); one of Bio Sci 310(P), 315(P)/316(P), or 383(P); 2.500 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Bio Sci 695 & Frshwtr 695 are jointly offered; w/ same subject, they count as repeats of one another. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
Last Taught: Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 699 Independent Study for Undergraduates
1-3 cr. Undergraduate.
Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member; requires approved study proposal.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 781 Water Law for Scientists and Policy Makers
3 cr. Graduate.
The course is formatted to provide five (5) classes each on the Clean Water Act and basic common law concepts of Water Law; The Great Lakes Compact; and Wisconsin’s Groundwater Protection Act. Counts as repeat of Frsh Wtr 650 with similar topic.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 782 Water Resources Planning
3 cr. Graduate.
Emphasis on planning for water across the water cycle (surface, groundwater, wetlands, etc.), integrating non-water resources (habitat, energy, GHG emissions, etc.) in an urban context.
Prerequisites: grad st.
Course Rules: Jointly offered with & counts as repeat of UrbPlan 782.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 790 Freshwater Policy and Governance
3 cr. Graduate.
The main theoretical frameworks used in public policy to study environmental problems.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 810 Professional Development for Water Leaders
3 cr. Graduate.
Exploration of skill set needed for lifelong career development: research ethics, communications, teamwork, interpersonal relationships, administration, entrepreneurship, project management, and leadership.
Prerequisites: Counts as repeat of FrshWtr 650 with similar topic. Prereq grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
FRSHWTR 822 Molecular & Cellular Basis of Environmental Disease
3 cr. Graduate.
Examines how environmental agents cause changes in gene expression, structure, and activity leading to disease; and resulting alterations in normal cellular processes and physiological consequences.
Prerequisites: grad st
Course Rules: Frshwtr 822 & EOH 822 are jointly-offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 888 Candidate for Degree
0 cr. Graduate.
Available for grad students who must meet minimum credit load requirement. Fee for 1 credit assessed.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 900 Colloquium in Freshwater Sciences
1 cr. Graduate.
Lectures by staff and visitors on research in various areas of freshwater sciences.
Prerequisites: grad st.
Course Rules: Retakable up to 2 cr.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 901 Seminar in Freshwater Sciences:
1-3 cr. Graduate.
Seminar on topics of current interest in freshwater sciences.
Prerequisites: grad st.
Course Rules: May be repeated w/ chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 980 Graduate Internship
1-3 cr. Graduate.
Students earn credits for serving in an internship that involves work related to freshwater sciences disciplines. They must prepare a report based on the internship. Retakable w/chg in topic to 6 cr max. Satisfactory/Unsatisfactory only.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 985 Master's Research and Thesis
1-6 cr. Graduate.
Research and writing of the master's thesis under the supervision of the major professor.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 990 Doctoral Research and Dissertation
1-9 cr. Graduate.
Research and writing of the doctoral dissertation under the supervision of the major professor.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRSHWTR 999 Independent Study
1-3 cr. Graduate.
For graduate students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/ chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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</thead>
<tbody>
<tr>
<td>Carmen Aguilar</td>
<td>Associate Scientist</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Fred Binkowski</td>
<td>Senior Scientist</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Harvey Bootsma</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Manitoba</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tracy Boyer</td>
<td>Associate Professor, Director of the Center for Water Policy</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Arthur Brooks</td>
<td>Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Michael Carvan</td>
<td>Shaw Professor</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Russell Cuhel</td>
<td>Senior Scientist</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology and Woods Hole Oceanographic Institution</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Dong-Fang Deng</td>
<td>Senior Scientist</td>
<td>PhD</td>
<td>University of California - Davis</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tim Grundl</td>
<td>Professor, Associate Dean of Academics</td>
<td>PhD</td>
<td>Colorado School of Mines</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Laodong Guo</td>
<td>Professor</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>John Janssen</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Jerry Kaster</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Colorado</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Jenny Kehl</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Colorado at Boulder</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Name</td>
<td>Title and Position</td>
<td>Degree</td>
<td>University</td>
<td>Notes</td>
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<tr>
<td>Rebecca Klaper</td>
<td>Professor, Director of the Great Lakes Genomics Center</td>
<td>PhD</td>
<td>University of Georgia</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>J. Val Klump</td>
<td>Professor, Dean</td>
<td>PhD</td>
<td>University of North Carolina - Chapel Hill</td>
<td>✔️</td>
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<tr>
<td>James Lubner</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✔️</td>
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<tr>
<td>Sandra McLellan</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Cincinnati Medical Center</td>
<td>✔️</td>
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<tr>
<td>Ryan Newton</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin - Madison</td>
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<tr>
<td>Charles Remsen</td>
<td>Professor</td>
<td>PhD</td>
<td>Syracuse University</td>
<td>✔️</td>
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<tr>
<td>Matthew Smith</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Tasmania</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Osvaldo Jhonatan Sepulveda Villet</td>
<td></td>
<td>PhD</td>
<td>University of Toledo</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>James Waples</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
<td>✔️</td>
<td></td>
</tr>
</tbody>
</table>

**Contact Information**

**School of Freshwater Sciences**  
Great Lakes Research Facility  
600 E. Greenfield Avenue  
Milwaukee, WI 53204

**Phone:** (414) 382-1700  
freshwater@uwm.edu

http://uwm.edu/freshwater/
APPLIED URBAN AQUACULTURE, UNDERGRADUATE CERTIFICATE

The Certificate in Applied Urban Aquaculture is open to all students seeking a bachelor's degree from UWM, as well as those who previously received a bachelor's degree from UWM or any other accredited college or university. Urban aquaculture techniques developed at UWM School of Freshwater Sciences promote the use of integrated, fish and vegetable production systems that utilize green technology, water reuse, zero effluent discharge, and energy conservation.

Learn concepts, apply methods, and develop solutions:
- Monitor water chemistry and microbial activity
- Perform harvesting and husbandry techniques
- Identify and diagnose pathogens and diseases
- Operate and oversee life support and recirculating aquaculture systems
- Create and implement aquaculture operating procedures

For more information contact Dr. Jhonatan Sepulveda, Assistant Professor of Freshwater Sciences, Certificate Coordinator, at sepulveo@uwm.edu.

Application Deadlines
- Fall 2018 – March 1, 2018
- Spring 2019 – December 15, 2018

Admissions
To be admitted to the university as non-degree students, individuals must meet regular university admission requirements (p. 12). Students who are not currently enrolled and have not applied to UW-Milwaukee in the past need to fill out an online application and pay the application fee. All applicants must submit transcripts that provide evidence of the following required coursework (or equivalent) prior to admission:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

To formally declare your intent to pursue the Certificate in Applied Urban Aquaculture, complete the Declaration Form and make an appointment with the certificate coordinator.

Program Requirements
Students must complete 15 credits (5 courses) with a minimum grade point average of 2.75. Courses for this certificate may not be taken on a credit/no credit basis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 511</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 562</td>
<td>Principles of Aquaculture Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits earned at other accredited institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee. This information should be included on the Declaration Form for approval when you apply to the certificate program.

To Apply
I have a Bachelor's Degree and am not currently enrolled in a degree program.

1. Contact Jhonatan Sepulveda Villet (sepulveo@uwm.edu) to review unofficial transcripts for prerequisites.
2. Apply online as a degree seeking certificate student at https://apply.wisconsin.edu/ and submit official transcripts. (There is no application fee for former UWM students; all others must pay the fee.
3. SFS reviews application and submits decision to Office of Undergraduate Admissions.

I am enrolled at another UW System school and have achieved at least junior status.

1. Contact Jhonatan Sepulveda Villet (sepulveo@uwm.edu) to review unofficial transcripts for prerequisites.
2. Your current undergraduate advisor completes a pre-authorization form.
3. Apply online as a degree seeking certificate student at https://apply.wisconsin.edu/ and submit official transcripts.
4. SFS reviews application and submits decision to Office of Undergraduate Admissions.

I am at least a junior at UWM.

1. Contact Jhonatan Sepulveda Villet (sepulveo@uwm.edu) to review unofficial transcripts for prerequisites.
2. SFS reviews application and submits decision to Office of Undergraduate Admissions.
3. Complete and submit the Applied Urban Aquaculture Declaration Form (http://uwm.edu/freshwater/wp-
content/uploads/sites/48/2014/07/AUA-Declaration-Form1.pdf) to Mallory Kaul (minorm@uwm.edu).

4. Certificate plan is added to your PAWS account.

There is no additional application fee for current UWM students.

**Gainful Employment**

The Applied Urban Aquaculture Program is subject to gainful employment regulations (http://uwm.edu/financialaid/apply-for-aid/eligibility/non-degree-students).

FRESHWATER SCIENCES AND TECHNOLOGY MS (THESIS)

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Freshwater Policy and Economics

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student's major professor.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Prerequisite Coursework
The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following at the college level: chemistry, biological sciences, physics, and calculus.
2. One additional semester of chemistry, biological sciences, or physics.

Admission will be considered based upon the applicant's academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

Other Admission Requirements
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. A bachelor's degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy, or other appropriate natural science, social science or engineering discipline.
2. A minimum GPA of 3.0.

3. Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (This requirement is optional for Professional Track applicants.).
4. Three letters of recommendation from persons familiar with the applicant's scholarship and/or research potential.

The student must indicate in the Statement of Purpose (part of the formalized application process) the track to which they are applying and the intended focus of their MS studies. The statement must also indicate how their previous education has prepared them for graduate studies.

Critical skills required for the successful completion of the MS program include research design, data analysis, and effective communication of research results.

Credits and Courses

For students admitted Spring 2018 and after
Minimum degree requirement is 31 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose three of the following</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>9</td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 508</td>
<td>Aquatic Technologies</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 510</td>
<td>Economics, Policy and Management of Water</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 513</td>
<td>Field Experimentation and Analysis in Freshwater Sciences</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 514</td>
<td>Analytical Techniques in Freshwater Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Required courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 890</td>
<td>Science, Communications, &amp; Public Engagement</td>
<td>4</td>
</tr>
<tr>
<td>FRSHWTR 900</td>
<td>Colloquium in Freshwater Sciences</td>
<td></td>
</tr>
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</table>

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 9 credits in consultation with the students major advisor</td>
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</tbody>
</table>

Master's Research and Thesis Credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 985</td>
<td>Master's Research and Thesis (Up to 6 credits)</td>
<td>6</td>
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</tbody>
</table>

Total Credits

31

For students admitted Fall 2017 and before
Minimum degree requirement is 30 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose three of the following</td>
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<td></td>
</tr>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>6</td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 508</td>
<td>Aquatic Technologies</td>
<td></td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 9 credits in consultation with the students major advisor</td>
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</table>
FRSHWTR 510  Economics, Policy and Management of Water

<table>
<thead>
<tr>
<th>Electives</th>
<th>9</th>
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</thead>
<tbody>
<tr>
<td>Select 9-12 credits in consultation with the students major professor</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Seminars and Practica</th>
<th>6</th>
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</thead>
<tbody>
<tr>
<td>FRSHWTR 512</td>
<td>Freshwater Sciences Practicum: (Take two different topics, 2 credits each)</td>
</tr>
<tr>
<td>FRSHWTR 901</td>
<td>Seminar in Freshwater Sciences: (Take two different topics, 1 credit each)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Master’s Research and Thesis Credits</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 985</td>
<td>Master’s Research and Thesis (Up to 6 credits)</td>
</tr>
</tbody>
</table>

Total Credits 30

Program Requirements

Major Professor as Advisor
Students in the thesis track must be accepted by a faculty member who will serve as the initial major professor, and be primarily responsible for matriculation. Acceptance or agreement by a faculty member does not constitute formal acceptance into the School of Freshwater Sciences. Prospective thesis-track students are strongly encouraged to communicate with the prospective major professors early in the admission process.

A plan of study is required that identifies the planned courses and timeline for completion of the degree. For the thesis track, this includes coursework and proposed research and is planned by the student in consultation with the major professor and must be approved by the Thesis Advisory Committee.

Thesis Advisory Committee
The membership of the Thesis Advisory Committee should be established by the end of the student’s first semester. The Committee must consist of three members including the M.S. student’s advisor as chair (or co-advisors as co-chairs who are graduate faculty members from the School of Freshwater Sciences) and at least two additional members, one of whom must come from outside the student’s research focus. Consideration will be given to the inclusion of one external, non-UWM member of the committee. If included as part of the committee, this person would participate in the thesis defense examination. The Committee must meet at least once a year to monitor the student’s academic and research progress.

Proposal Defense and Preliminary Oral Examination
The student must complete a formal oral defense of her or his written thesis proposal. This defense should be made before the end the third semester and will also serve as the preliminary oral examination. The Thesis Committee decides by simple majority whether the student passes, fails, or must repeat the examination or defense. At the discretion of the Committee, a student who fails the defense or examination may be allowed one additional attempt at successful completion.

Thesis
The thesis is conducted with oversight from the student’s Advisory Committee. The thesis research is expected to be of a caliber sufficient for publication in a peer-reviewed journal. Satisfactory completion of the thesis, including successful defense, is required for graduation. Up to six credits may be awarded for thesis research.

Please see the Graduate School thesis and dissertation formatting requirements (http://uwm.edu/graduateschool/thesis-dissertation-formatting) for further information.

Thesis Defense
The thesis defense is a public presentation of the thesis research followed by an oral defense administered by the Advisory Committee.

Time Limit
All degree requirements must be completed within five years of initial enrollment.
FRESHWATER SCIENCES AND TECHNOLOGY MS: PROFESSIONAL SCIENCE TRACK

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Freshwater Policy and Economics

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The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student's major professor.

Admission Requirement

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Prerequisite Coursework

The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following at the college level: chemistry, biological sciences, physics, and calculus.
2. One additional semester of chemistry, biological sciences, or physics.

Admission will be considered based upon the applicant’s academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

Other Admission Requirements

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. A bachelor's degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy, or other appropriate natural science, social science or engineering discipline.
2. A minimum GPA of 3.0.
3. Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (This requirement is optional for Professional Track applicants.).
4. Three letters of recommendation from persons familiar with the applicant’s scholarship and/or research potential.

The student must indicate in the Statement of Purpose (part of the formalized application process) the track to which they are applying and the intended focus of their MS studies. The statement must also indicate how their previous education has prepared them for graduate studies.

Critical skills required for the successful completion of the MS program include research design, data analysis, and effective communication of research results.

Credits and Courses

For students admitted Spring 2018 and after

Minimum degree requirement is 32 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 513</td>
<td>Field Experimentation and Analysis in Freshwater Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 514</td>
<td>Analytical Techniques in Freshwater Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 900</td>
<td>Colloquium in Freshwater Sciences</td>
<td>1</td>
</tr>
<tr>
<td>FRSHWTR 810</td>
<td>Professional Development for Water Leaders</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 890</td>
<td>Science, Communications, &amp; Public Engagement</td>
<td>3</td>
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Select one of the following: 3

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
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<tr>
<td>FRSHWTR 508</td>
<td>Aquatic Technologies</td>
</tr>
<tr>
<td>FRSHWTR 510</td>
<td>Economics, Policy and Management of Water</td>
</tr>
</tbody>
</table>

Electives

Select 9 credits in consultation with the students major advisor 9

Graduate Internship

<table>
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<tr>
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>FRSHWTR 980</td>
<td>Graduate Internship</td>
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Total Credits 32

For students admitted Fall 2017 and before

Minimum degree requirement is 36 graduate credits.

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<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
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</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td>3</td>
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</table>

Select two of the following: 6

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</thead>
<tbody>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
</tr>
</tbody>
</table>
Program Requirements

Major Professor as Advisor
Upon admission to the program, each student in the professional track will be assigned an initial advisor based on their background. The initial advisor will provide counseling to the students and help to identify goals and objectives of their graduate education. Students should identify their permanent advisor during the first semester in the program. The advisor will oversee the student’s internship.

A plan of study is required and planned by the student in consultation with his or her advisor and the internship coordinators of the program. The plan of study identifies the planned courses and timeline for completion of the degree coursework and internship.

Internship
All students in the professional science track are required to participate in an internship research experience, generally between the first and second years of the program. Internship experiences focus on complex regional, national, and global water problems and often involve authentic, practical problems in the field. The program coordinators provide resources and internship opportunities with industry, government, and non-profit organizations. It is the responsibility of the student and advisor to identify the internship and the direct supervisor within a specific organization and submit a proposal that identifies goals and objectives of the internship. Proposals will be reviewed and approved by the advisor. Alternatively, a group project may occur in lieu of an internship and should provide students with training and experience in performing professional-level work that involves managing group dynamics and applying technical expertise to solve complex, multidisciplinary water-related problems.

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

1 Substitute courses (http://uwm.edu/freshwater/professional-core-courses) as approved by program director.
FRESHWATER SCIENCES, PHD

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Freshwater Policy and Economics

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Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student’s major professor.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Prerequisite Coursework
The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following four areas: chemistry, biological sciences, physics, and calculus.
2. One additional semester of chemistry, biological sciences, or physics.

Admission will be considered based upon the applicant’s academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

Other Requirements
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

1. A degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy or other appropriate natural science, social science or engineering discipline.
2. An undergraduate GPA of at least 3.0 (4.0 basis).

4. Three letters of recommendation from persons familiar with the applicant’s scholarship, research achievements and potential.

A master’s degree is not a prerequisite for admission to the PhD program.

Students in the PhD program must be accepted by a faculty member who will serve as the major professor, and be primarily responsible for matriculation. Acceptance or agreement by a faculty member does not constitute formal acceptance into the School of Freshwater Sciences. Applicants are strongly encouraged to communicate with prospective major professors early in the admission process.

Reapplication
A student in the MS program, or who receives the master’s degree at UWM, must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

Credits and Courses

For students admitted Spring 2018 and after
Students must earn 54 credits beyond the bachelor’s degree, of which 24 credits may be taken from formal coursework completed as part of a master’s degree. A minimum of 27 credits must be earned in residence at UWM. Students may take up to a maximum of 9 credits of independent study counting toward the degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSHWTR 900</td>
<td>Colloquium in Freshwater Sciences</td>
<td>5</td>
</tr>
<tr>
<td>ENGLISH 890</td>
<td>Science, Communications, &amp; Public Engagement</td>
<td></td>
</tr>
<tr>
<td>Select four of the following</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 508</td>
<td>Aquatic Technologies</td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 510</td>
<td>Economics, Policy and Management of Water</td>
<td></td>
</tr>
<tr>
<td>Select one of the following</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 513</td>
<td>Field Experimentation and Analysis in Freshwater Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 514</td>
<td>Analytical Techniques in Freshwater Sciences</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 17 credits in consultation with the students major professor</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Doctoral Research and Dissertation Credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRSHWTR 990</td>
<td>Doctoral Research and Dissertation</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>54</td>
<td></td>
</tr>
</tbody>
</table>

A Program of Study, including coursework and proposed research, is planned by the student in consultation with the major professor, and must be approved by the Committee. A student must present an annual progress report and an updated plan of study to his or her Doctoral Advisory Committee. For students entering with advanced degrees, some of the coursework may already be completed. Requests for
counting previously taken courses toward the degree requirements will be evaluated on a case-by-case basis. A minimal grade point average of 3.00 must be earned in coursework, not including research or seminars.

For students admitted Fall 2017 and before
You must earn 54 credits beyond the bachelor's degree, of which 24 credits may be taken from formal coursework completed as part of a master's degree.

You are required to take two integrative Seminar courses (FRSHWTR 901) and two Freshwater Sciences Practicum courses (FRSHWTR 512), as well as Quantitative Freshwater Analysis (FRSHWTR 504). In addition, you must complete at least 9 credits of dissertation research. Elective courses are selected in consultation with your PhD committee. A minimum of 27 credits must be earned in residence at UWM. You may take up to a maximum of 9 credits of independent study counting toward the degree.

You must be proficient in at least three of the four areas of study: 1. freshwater systems, 2. human/ecosystem health, 3. freshwater technology, and 4. freshwater policy and economics. To meet this requirement, core courses are offered in each of these respective areas:

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<td>Economics, Policy and Management of Water</td>
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</tr>
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</table>

Program Requirements

Residence
The student must meet Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence).

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. Appointment of a major professor will be based on compatibility between a student's preferred research area or area of specialization and a professor's area of specialization.

PhD Advisory Committee
The membership of the PhD Advisory Committee will be established by the end of the student's first year. The Committee must consist of five members including the doctoral student's advisor as chair (or co-advisors as co-chairs). A minimum of three members must be from UWM, at least two graduate faculty members from the School of Freshwater Sciences, and two additional members, with consideration given to the inclusion of an external, non UWM member. The Committee must meet at least once a year to monitor and formally report to the faculty on the student's academic and research progress.

Doctoral Preliminary Examination
The preliminary examination must be passed by the end of the second year for the student to continue in the program. Extensions of this deadline must be approved by the PhD Advisory Committee. The examination is in two parts: written and oral. The content of the examination is determined in advance by the student's Advisory Committee, and will include subject matter that is broadly related to the area of research that the student will specialize in, as well as content related to the core courses. The Doctoral Committee decides by simple majority whether the student passes, fails, or must retake part or all of the examination. At the discretion of the Committee, a student who fails the examination may be allowed one additional attempt of all or part of the examination. After successful completion of the preliminary examination, the student concentrates on the development and execution of original research.

Dissertation Proposal Hearing
Following successful completion of the doctoral preliminary examination, the student submits a written dissertation proposal to the student's PhD Advisory Committee. The proposal must be submitted within one semester of the successful completion of preliminary exams, and defended by the end of the following semester. Extensions of this deadline must be approved by the PhD Advisory Committee.

Dissertator Status
Specific requirements which must be completed before the Graduate School places a doctoral student in dissertator status are described in the Doctor of Philosophy Degree (http://uwm.edu/graduateschool/doctoral-requirements) requirements section.

Dissertation
During the final year of study, the candidate must present a public seminar on the dissertation research and subsequently prepare and successfully defend a dissertation reporting the results of the candidate's research to the Committee. The original research findings embodied in this dissertation are expected to be accepted for publication in one or more refereed journals. Please see the Graduate School thesis and dissertation formatting requirements for further information.

Dissertation Defense
As the final step toward the degree the candidate must defend the dissertation before the PhD Advisory Committee.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.
HEALTH SCIENCES (COLLEGE OF)

The UWM College of Health Sciences offers the largest number of health-related degree programs in Wisconsin, training its graduates for high-demand careers. Many of the College’s seven undergraduate and eleven graduate degree programs are nationally-recognized and have achieved the highest accreditation awards possible. The College’s faculty conducts state-of-the-art research attracting a record number of federal research grants. During its 42-year history, the College’s research and health sciences education have contributed significantly to improving quality of life.

Our faculty comprises an esteemed group of scholars. The research activities of our faculty and staff encompass groundbreaking urban and population studies, pioneering biomedical research investigations, advances in movement science, ingenious rehabilitation research and development, innovative applied clinical technologies, and novel disease prevention approaches. These activities are supported by the resources of eight academic centers and twenty-seven state of the art laboratories within the College, and millions of dollars in funds from reputable institutions, such as the National Institutes of Health, the National Science Foundation, the Centers for Disease Control and Prevention, and the U.S. Department of Education.

Departments and Programs

- Biomedical Sciences (p. 793)
  - Biomedical Sciences, BS: Biomedical Science (p. 802)
  - Biomedical Sciences, BS: Cytotechnology (p. 804)
  - Biomedical Sciences, BS: Diagnostic Imaging Completion (p. 807)
  - Biomedical Sciences, BS: Diagnostic Medical Sonography (p. 808)
  - Biomedical Sciences, BS: Health Science Completion (p. 811)
  - Biomedical Sciences, BS: Medical Laboratory Science (p. 813)
  - Biomedical Sciences, BS: Public Health Microbiology (p. 815)
  - Biomedical Sciences, BS: Radiologic Technology (p. 818)
  - Biomedical Sciences, MS (p. 820)
  - Blood Banking/Immunohematology, Undergraduate Certificate (p. 821)
  - Death Investigation, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) (p. 822)
  - Forensic Science, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) (p. 823)
  - Forensic Toxicology, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) (p. 823)
  - Molecular Diagnostics, Undergraduate Certificate (p. 824)
  - Nutritional Sciences, BS (Department of Biomedical Sciences) (p. 825)
  - Nutritional Sciences, Minor (Department of Biomedical Sciences) (p. 826)
  - Communication Sciences and Disorders (p. 828)
    - Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Communication Sciences and Disorders) (p. 833)
    - Communication Sciences and Disorders, BS (p. 834)
    - Communication Sciences and Disorders, MS (p. 837)
  - Food Studies, Undergraduate Certificate (College of Health Sciences) (p. 840)
  - Health Informatics and Administration (p. 842)
    - Health Care Administration, BS (p. 848)
    - Health Care Administration, Minor (p. 850)
    - Health Care Informatics, MS (p. 850)
    - Health Care Informatics, MS/Library and Information Science, MLIS (p. 851)
    - Health Care Informatics, Undergraduate Certificate (p. 853)
    - Healthcare Administration, MHA (p. 853)
  - Health Professional Education, Graduate Certificate (College of Health Sciences) (p. 855)
  - Health Sciences (p. 857)
    - Health Sciences, PhD (p. 857)
  - Interprofessional Graduate Certificate in Public and Population Health (College of Health Sciences) (p. 860)
  - Kinesiology (p. 862)
    - Applied Gerontology, Graduate Certificate (College of Health Sciences, Department of Kinesiology) (p. 877)
    - Athletic Training, MS (p. 878)
    - Complementary and Integrative Health Approaches, Undergraduate Certificate (p. 879)
    - Healthy Aging, Undergraduate Certificate (p. 879)
    - Kinesiology, BS (p. 880)
    - Kinesiology, Minor (p. 882)
    - Kinesiology, MS (p. 883)
    - Kinesiology, PhD (p. 884)
    - Nutritional Sciences, BS (Department of Kinesiology) (p. 886)
    - Nutritional Sciences, Minor (Department of Kinesiology) (p. 887)
  - Occupational Science and Technology (p. 889)
    - Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) (p. 898)
    - Occupational Studies, BS (p. 899)
    - Occupational Therapy, MS (p. 907)
    - Occupational Therapy, MS: Assistive Technology and Accessible Design (p. 903)
    - Occupational Therapy, MS: Ergonomics (p. 905)
    - Therapeutic Recreation, Undergraduate Certificate (p. 908)
    - Trauma Informed Care, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) (p. 909)
  - Physical Therapy (p. 911)
    - Physical Therapy, DPT (p. 911)
  - Pre-Professional Programs (p. 913)
  - Pre-Physical Therapy (p. 913)

Undergraduate Academic Advising

Academic advising and counseling for all pre-professional students is available in the Office of Student Affairs. Students who have been admitted to their major/professional program may be assigned a faculty advisor. Professional and faculty advisors are prepared to guide academic planning, provide career and job market information, and to
assist students in making appropriate career choices within the health professions. Students are strongly encouraged to schedule one advising session per semester (preferably before the registration process).

Students who believe they have a disability that might affect their academic or job performance are encouraged to meet with an advisor early in their academic planning to discuss appropriate accommodations. Graduation clearance service is available for all students planning to register for the last two semesters. Call (414) 229-2758 for an appointment.

Transfer Students
The College of Health Sciences welcomes students from other academic areas on the UWM campus, and students transferring to UWM from other institutions. Students planning to transfer into any of the College’s majors should meet with an advisor in the Office of Student Affairs to plan their curriculum as early as possible. Most students find that a number of their courses transfer in meeting specific program and General Education Requirements (GER) needed for graduation. Students may meet with their advisor in person or by phone; quick questions to advisors may be handled by email as well. Please call (414) 229-2758 for an appointment or information.

Graduate Policies and Regulations
The Graduate School policies and regulations can be found at Graduate Policies (p. 22). Please refer to the specific program for program policies and regulations.

Undergraduate Academic Regulations
For information regarding action on unsatisfactory grades or about honors for scholarship, see Academic Policies (p. 27).

Students in all College of Health Sciences majors whose cumulative or semester GPA in professional studies falls below 2.5 (except Nutrition, Occupational Studies, and all Kinesiology majors, who must have a semester GPA of 2.75; semesterly GPA of 3.0 is required for BS in Communication Sciences and Disorders) are required to consult with their program head and obtain the Dean’s permission to continue in the program.

Continuous Enrollment
A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Curriculum Requirements
Any deviations from the curriculum must be approved, in writing, by the student’s program director or chairperson, and the Associate Dean. It is required that a student consult his/her advisor before requesting any program changes or waivers.

Requirements for Employment, Licensing, or Professional Organizations
Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, or internships, students will be required to have a check of criminal conviction records prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly.

Health Insurance Documentation
Students may be required to carry health insurance during internship or fieldwork experiences. As a condition of placement in an internship program, students may also be required to have updated vaccinations (e.g., MMR, Hbv). In addition, a physical examination and TB test may be required.

Special Opportunities
Enrollment in UW System Independent Learning
Courses may be taken through the University of Wisconsin-Extension, with the permission of the Director of the Office of Student Affairs. Students may not exceed 18 credits during one semester, including correspondence courses and work in residence, without permission. Approval of a tuition waiver in an Independent Learning course may be contingent on enrollment by the add deadline in the semester in which you aim to enroll. Please connect with your advisor for further guidance.

Only elective course requirements may be met through Extension study.

Independent Study
Independent study is available in each department. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a faculty member. Activities may include reading, research, and special projects and must be approved, in advance, by the full-time faculty supervisor. Independent study is offered at the lower and upper levels. Students must have a cumulative GPA of 2.5 at UWM to pursue independent study. Upper-division independent study requires senior status. For more information, see the catalog course listings or contact the department chairperson.

College Level Examination Program (CLEP)
Credit for specific college courses may be earned through the College Level Examination Program (CLEP) of the College Entrance Examination Board. Students will be granted degree credit only for subject examinations, and if they score at the 50th percentile or higher on the National Sophomore norm. Credit for subject examinations may only be used to satisfy elective credits within the College of Health Sciences degree programs. A list of acceptable examinations may be found in the introductory section of this catalog under Academic Opportunities.

Online Programs
The College of Health Sciences is pleased to offer our Undergraduate students the opportunity to complete select degree programs and certificate programs in a fully online format.

Interested students should contact the College’s Office of Student Affairs for curriculum plans and an opportunity to meet with our academic advisors, (414) 229-2758. The Office is located in NWQB, Room 6425.

These programs include:

- BS, Biomedical Sciences, Degree Completion Program in Health Sciences (see the Biomedical Sciences (p. 793) section of this Catalog)
- BS, Biomedical Sciences, Degree Completion Program in Diagnostic Imaging (also available in Flexible Option) (see the Biomedical Sciences (p. 793) section of this Catalog)
• Certificate, Study of Complementary and Alternative Medicine (see the Kinesiology (p. 862) section of this Catalog)
• Certificate, Health Care Informatics (see the Health Informatics and Administration (p. 842) section of this Catalog)
• Certificate, Therapeutic Recreation (see the Occupational Science and Technology (p. 889) section of this Catalog)

Administration
Ron Cisler, PhD
Dean

Jeri-Annette Lyons, PhD
Associate Dean

Abigail Amissah-Arthur, PhD
Assistant Dean, Office of Research

Kate Brondino, MEd
Director, Office of Student Affairs

Susan Cashin, PhD
Director, Data Analytics

Cheri Dzieken Chapman
Communications Manager

Chi (Chris) Cho, MS
Biostatistician

Mike Hauer, PhD
Assistant Dean Emeritus

Michelle Janowiak
Senior Student Services Coordinator

Debra Maglio
Senior Administrative Program Specialist, Business Office

Karen Miyoshi, MA
Administrative Program Manager II

Marion McDowell
Administrative Program Manager III Emerita

Bill Mueller, MS
Academic Advisor

Nancy Nelson, PhD
Assistant Dean, Outreach and Continuing Education

Agnes Northrup, MS
Academic Advisor

Angela Rintelman, MS
Academic Advisor/Recruiter

Torry Rufer, MS
Recruiter, Academic Advisor

Roger O. Smith, PhD, OTR, FAOTA
Director, R2D2

Susan Stalewski, MBA, MLS (ASCP)
Director, Academic Initiatives and Planning
Director, E-learning

Scott Strath, PhD
Director, Center for Aging and Translational Research

Contact Information
Office of Student Affairs
NWQ Building B 6th floor, Room 6425
2025 E. Newport Ave
Milwaukee, WI 53211

Phone: (414) 229-2758
chs-info@uwm.edu

http://uwm.edu/healthsciences/
**BIOMEDICAL SCIENCES**

Medical tests are critical to the accurate detection, diagnosis and treatment of diseases, and so are the scientists who analyze and interpret those tests in the lab. A degree in biomedical sciences prepares these analysts, and is ideal for students who enjoy science and its practical applications in healthcare or research settings.

**Programs**

- Biomedical Sciences, BS: Biomedical Science (p. 802)
- Biomedical Sciences, BS: Cytotechnology (p. 804)
- Biomedical Sciences, BS: Diagnostic Imaging Completion (p. 807)
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- Molecular Diagnostics, Undergraduate Certificate (p. 824)
- Nutritional Sciences, BS (Department of Biomedical Sciences) (p. 825)
- Nutritional Sciences, Minor (Department of Biomedical Sciences) (p. 826)

**Biomedical Sciences Courses**

**BMS 101 Introduction to Clinical Laboratory Sciences**
2 cr. Undergraduate.
Lecture and laboratory instruction to introduce the student to the profession of clinical laboratory sciences with special emphasis in medical technology and cytotechnology.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

**BMS 201 Sexually Transmitted Diseases and AIDS**
3 cr. Undergraduate.
Introductory course examining epidemiology, physiology, and microbiology of sexually transmitted infectious diseases. Information on reproductive physiology, pathophysiology and clinical disease, prevention and current treatment strategies.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

**BMS 204 Plagues, Pandemics, and Epidemics**
3 cr. Undergraduate.
Basic principles and concepts of infectious diseases recognized to be of major worldwide importance in terms of mortality and morbidity.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

**BMS 205 Introduction to Diagnostic Medicine**
3 cr. Undergraduate.
This course will provide a framework for understanding medical diagnostic tests in terms of procedures, risks, interpretation of results and relevant science behind the tests.
Prerequisites: none.
Course Rules: Counts as repeat of BMS 205X.
General Education Requirements: NS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

**BMS 232 Introduction to Nutrition**
3 cr. Undergraduate.
Fundamentals of human nutrition, functions and requirements of nutrients, nutritional needs throughout the life cycle.
Prerequisites: none.
Course Rules: Not open for cr to students with cr in Hlthsci 238 or BMS 332.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

**BMS 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective**
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.
Prerequisites: soph st or cons instr.
Course Rules: BMS/ComSDis/HCA/Kin/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Counts as repeat of BMS 245X.
General Education Requirements: CD, SS
Current Offerings: http://uwm.edu/schedule

**BMS 260 Introduction to Complementary and Integrative Health Approaches**
3 cr. Undergraduate.
Introduction to the philosophy, evidence and applications of diverse medical and health care systems, practices, and products that are not generally considered part of conventional western biomedicine.
Prerequisites: none.
Course Rules: Counts as repeat of BMS 260X.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
BMS 281 Dead Men Do Tell Tales: An Introduction to Forensic Science
3 cr. Undergraduate.
A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.
Prerequisites: none.
Course Rules: Jointly-offered with & counts as repeat of Anthro/Chem/Crm Jst 281.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

BMS 285 Medicolegal Death Investigation
3 cr. Undergraduate.
Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 290 Topics in Health Sciences:
1-3 cr. Undergraduate.
Topics of current interest in the field of health sciences.
Prerequisites: specified in sem schedule whenever req’d for a topic.
Course Rules: May be repeated with change in topic.
Current Offerings: http://uwm.edu/schedule

BMS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

BMS 301 Human Pathophysiology: Fundamentals
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cell injury, inflammation, immunopathology, repair, regeneration and fibrosis.
Prerequisites: Bio Sci 203(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 302 Human Pathophysiology: Organ Systems I
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover developmental and genetic disorders, neoplasms, nervous system, bone, joints, skeletal muscle.
Prerequisites: BMS 301(C) or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

BMS 303 Human Pathophysiology: Organ Systems II
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cardiovascular, respiratory, blood and lymphoid systems, diabetes.
Prerequisites: BMS 301(C) or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

BMS 304 Human Pathophysiology: Organ Systems III
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover gastrointestinal tract, pancreas, kidney, liver/biliary system, female and male reproductive systems.
Prerequisites: BMS 301(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 305 Human Pathophysiology: Organ Systems IV
1 cr. Undergraduate.
Pathological mechanisms underlying disease states, diagnosis/treatment of these disorders. Topics: endocrine system, infectious and parasitic diseases, environmental and nutritional factors related to morbidity/mortality.
Prerequisites: BMS 301(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 332 Clinical Nutrition
2 cr. Undergraduate.
Nutritional needs throughout life; relationships between food habits and health problems; evaluating dietary information for deficiencies and imbalances.
Prerequisites: Chem 103(P), Bio Sci 202(P) & 203(P), or BMS 232(P) or HlthSci 232(P).
Current Offerings: http://uwm.edu/schedule

BMS 333 Echocardiography I
3 cr. Undergraduate.
Introduction to normal cardiovascular anatomy, the normal ultrasound exam and protocol for an echocardiogram.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2009, Fall 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

BMS 403 Sonographic Physics I
1 cr. Undergraduate.
Study of the basic principles of acoustic transmission, reflection in tissues and transducer design in pulse echo systems.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 404 Sonographic Physics II
1 cr. Undergraduate.
Study of the basic principles of near zone, far zone, beam profiles, beam focusing, transducer arrays.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 405 Sonographic Physics III
1 cr. Undergraduate.
Study of the basic principles of Doppler, acoustical exposure measurements, QA, bioeffects and the ALARA principle.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule
BMS 406 Diagnostic Medical Sonography (DMS) Abdomen I
4 cr. Undergraduate.
Study of normal and abnormal sonograms of the peritoneal space, prevertebral vessels, liver, biliary, pancreas and kidneys will be discussed.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 407 Diagnostic Medical Sonography (DMS) Abdomen II
4 cr. Undergraduate.
Study of normal and abnormal sonograms of the spleen, transplant imaging, GI imaging and dedicated pediatric imaging will be discussed.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 408 Vascular Sonography: CV & PV-Arterial
5 cr. Undergraduate.
Study of cerebrovascular anatomy, normal and abnormal, and ultrasound imaging, upper arterial ultrasound exams, anatomy and pathology and lower extremity arterial ultrasound.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 409 Vascular Technology: Advanced
4 cr. Undergraduate.
Study of peripheral vascular direct and indirect arterial and venous, normal and abnormal and abdominal Doppler.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 410 Sonography Clinical Internship I
5 cr. Undergraduate.
Students will successfully complete sonography clinical competency examinations, under the supervision of the clinical instructors.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

BMS 411 Sonography Clinical Internship II
5 cr. Undergraduate.
Students will successfully complete sonography clinical competency examinations, under the supervision of the clinical instructors.
Prerequisites: jr st in BioMed Sci prog or cons instr.
Last Taught: Spring 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

BMS 420 Clinical Hematology
3 cr. Undergraduate/Graduate.
Lectures in the production, regulation, function, and cytomorphology of normal hematopoietic elements. Introduction to hemostasis theory.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 421 Introduction To Hematology Laboratory
1 cr. Undergraduate.
Clinical laboratory experiences in basic hematology techniques and instrumentation to evaluate hematopoietic elements. 3 hr lab.
Prerequisites: jr st in BioMed Sci prog or cons instr; BMS 420(C).
Current Offerings: http://uwm.edu/schedule

BMS 427 Clinical Immunology
3 cr. Undergraduate/Graduate.
Fundamentals of Clinical Immunology, including cellular, humoral and molecular aspects. Correlation of laboratory test results with clinical disease states.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 428 Clinical Immunology Laboratory
1 cr. Undergraduate.
Laboratory experiments in clinical immunology and theories of testing concepts. 3 hr lab.
Prerequisites: jr st in BioMed Sci prog or cons instr; BMS 427(C).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 431(C). Clinical Chemistry
3 cr. Undergraduate/Graduate.
Correlation of clinical chemistry with the pathophysiology of human disease.
Prerequisites: jr st; Chem 501(P) or cons instr; or grad st.
Current Offerings: http://uwm.edu/schedule

BMS 432 Clinical Chemistry Laboratory Theory & Operations
1 cr. Undergraduate.
Theory and application of Clinical Chemistry laboratory principles. Focus on laboratory principles, quality assurance, theory of instrumentation, and laboratory problem solving.
Prerequisites: jr st in BioMed Sci prog or cons instr; Chem 501(P); BMS 431(C).
Current Offerings: http://uwm.edu/schedule

BMS 433 Teamwork in the Health Professions
3 cr. Undergraduate.
Develop and demonstrate competency in best practices for professionalism, roles, responsibilities, teamwork, communication, ethics, and collaboration to improve the quality and safety of patient care.
Prerequisites: sr st or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 433X Teamwork in the Health Professions
3 cr. Undergraduate.
Develop and demonstrate competency in best practices for professionalism, roles, responsibilities, teamwork, communication, ethics, and collaboration to improve the quality and safety of patient care.
Prerequisites: sr st or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 434 Professional Development in the Health Sciences
3 cr. Undergraduate.
Knowledge and understanding about professional volunteerism, leadership, legislative, and advocacy efforts, certification and licensure, career pathways, growth, and advancement.
Prerequisites: sr st or cons instr.
Current Offerings: http://uwm.edu/schedule
BMS 434X Professional Development in the Health Sciences  
3 cr. Undergraduate.  
Knowledge and understanding about professional volunteerism, leadership, legislative, and advocacy efforts, certification and licensure, career pathways, growth, and advancement.  
Prerequisites: sr or cons instr.  
Current Offerings: http://uwm.edu/schedule

BMS 459 Introduction to 3D/4D Ultrasound  
3 cr. Undergraduate.  
Comparison of normal and pathological anatomy cases utilizing two, three and four dimensional sonography techniques.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2013, Spring 2010, Spring 2009.  
Current Offerings: http://uwm.edu/schedule

BMS 462 Seminar in Ultrasound Research  
3 cr. Undergraduate.  
Student is assigned to a research project and mentor in didactic one-on-one sessions and performing clinical studies.  
Prerequisites: jr st in BioMed Sci prog or cons instr.  
Last Taught: Spring 2009.  
Current Offerings: http://uwm.edu/schedule

BMS 472 Radiographic Anatomy and Physiology IV  
3 cr. Undergraduate.  
Structure and physiology of the human body as they relate to radiography of the remaining systems. The physiochemical process.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Last Taught: Fall 2012, Fall 2011, Fall 2010, Fall 2009.  
Current Offerings: http://uwm.edu/schedule

BMS 476 Radiographic Exposure IV  
3 cr. Undergraduate.  
Digital imaging concepts and conversion problems, qualities of contrast, density, detail, and distortion.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Current Offerings: http://uwm.edu/schedule

BMS 481 Criminalistics  
3 cr. Undergraduate.  
Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.  
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/Crm Jst 281 (P); Crm Jst 480 (P).  
Course Rules: Anthro 481, Chem 481, BMS 481, & Crm Jst 481 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule

BMS 497 Study Abroad:  
1-12 cr. Undergraduate/Graduate.  
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.  
Prerequisites: acceptance to Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: http://uwm.edu/schedule

BMS 501 Introduction to Cytotechnology  
1 cr. Undergraduate.  
Fieldwork to include lecture and laboratory instruction introducing the profession of Cytotechnology with emphasis on the role, responsibility, and ethics of the profession.  
Prerequisites: sr st in BioMed Sci prog & cons prog dir.  
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.  
Current Offerings: http://uwm.edu/schedule

BMS 521 Applied Clinical Hematology  
2 cr. Undergraduate.  
Instruction in hematological laboratory techniques and the pathophysiology of disease of the reticuloendothelial system using case studies as a basis of discussion.  
Prerequisites: sr st in BioMed Sci prog or cons instr.  
Current Offerings: http://uwm.edu/schedule

BMS 522 Hemostasis  
1 cr. Undergraduate.  
Correlation of basic theories of the hemostatic system with normal and abnormal clinical laboratory results. Introduction to basic methodology employed in differential diagnosis of hemostatic disorders.  
Prerequisites: sr st in BioMed Sci prog or cons prog dir.  
Current Offerings: http://uwm.edu/schedule

BMS 523 Lectures in Advanced Clinical Hematology  
1 cr. Undergraduate.  
Lectures dealing with abnormalities of hematopoiesis, and the blood dyscrasias, and examination of bone marrow and lymphnodes.  
Prerequisites: BMS 420(320)(P) or cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

BMS 524 Advanced Clinical Hematology Practicum  
3 cr. Undergraduate.  
Practical experience in the clinical laboratory dealing with both normal and abnormal hematology and body fluids.  
Prerequisites: sr st in BioMed Sci prog or cons prog dir.  
Current Offerings: http://uwm.edu/schedule

BMS 529 Introduction to Immunohematology  
3 cr. Undergraduate.  
An introduction to the fundamentals of immunohematology and clinical blood banking.  
Prerequisites: BMS 427(P) or cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

BMS 530 Immunohematology and Blood Banking Laboratory  
1 cr. Undergraduate.  
Fundamental practical instruction in basic blood banking techniques.  
Prerequisites: BMS 529(C) or cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule
BMS 531 Advanced Lectures in the Clinical Laboratory Sciences
1 cr. Undergraduate.
Clinical applications and relationships within the various disciplines of
clinical laboratory sciences including discussion of current topics of
interest in diagnostic medicine.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 532 Advanced Clinical Immunohematology and Immunology
3 cr. Undergraduate.
Practical instruction in clinical serology and immunohematology.
Correlation of test results with disease states.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 534 Medical Microbiology
3 cr. Undergraduate/Graduate.
Advanced comprehensive study of microorganisms that influence human
health and disease. Emphasis on identification/diagnosis and microbial
attributes and mechanisms that facilitate infectious disease.
Prerequisites: jr st & Bio Sci 383(303)(P); or grad st; or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 535 Medical Microbiology Laboratory
2 cr. Undergraduate/Graduate.
Formal systematic laboratory study of microorganisms important in
human health and disease. Emphasis on current methods of detection,
identification and treatment. 4 hr lab.
Prerequisites: jr st & Bio Sci 383(303)(P), or cons instr; BMS 534(C).
Current Offerings: http://uwm.edu/schedule

BMS 536 Applied Clinical Microbiology
2 cr. Undergraduate.
Lectures and laboratory dealing with the systematic study of bacteria of
medical importance to humans.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 537 Medical Parasitology and Mycology
2 cr. Undergraduate/Graduate.
Lectures and laboratory dealings with the medically significant parasitic
and mycotic agents of human disease.
Prerequisites: sr st in BioMed Sci prog; or grad st; or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 538 Advanced Clinical Microbiology Practicum
3 cr. Undergraduate.
Clinical instruction in techniques utilized for the diagnosis of infectious
disease, including special culture techniques.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 539 Public Health Microbiology
2 cr. Undergraduate/Graduate.
The role of microbiological analysis in public health and the current
techniques for detecting, identifying, and enumerating pathogenic
microorganisms.
Prerequisites: jr st & Bio Sci 383(303)(P), or grad st; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 540 Public Health Microbiology Lab
2 cr. Undergraduate/Graduate.
Current laboratory techniques for detecting, identifying, and enumerating
pathogenic microorganisms.
Prerequisites: jr st, or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 541 Urinalysis
1 cr. Undergraduate.
Lecture and laboratory experience in clinical analysis of urine.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 542 Applied Clinical Chemistry
2 cr. Undergraduate.
Systematic instruction in the laboratory determination of substances of
principal interest to the diagnosis of human disease.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 544 Advanced Clinical Chemistry Practicum
3 cr. Undergraduate.
Experience in a hospital laboratory dealing with routine and specialized
biochemical procedures and all phases of instrumentation currently used
in this field.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 545 Human Histology
3 cr. Undergraduate/Graduate.
A detailed study of the structure and function of human tissues.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

BMS 547 Clinical Laboratory Diagnosis
5 cr. Undergraduate.
Lectures and laboratory covering special topics in the use of laboratory
testing in clinical diagnosis of disease.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 548 Clinical Laboratory Practice
5 cr. Undergraduate.
Experience in various laboratory techniques.
Prerequisites: sr st in BioMed Sci prog or cons prog dir.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
BMS 549 Professional Development in Clinical Laboratory Sciences
3 cr. Undergraduate.
Discussion and participation in professional development activities.
Topics include: laboratory management, laboratory information systems, professional conduct, ethics, certification, job placement, and educational methodologies.
Prerequisites: sr st in BioMed Sci prog or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 552 Advanced Nutrition
2 cr. Undergraduate/Graduate.
Nutrient utilization and human metabolism, nutritional influences in anthropology, epidemiology and international development issues.
Prerequisites: jr st, BMS 232(P) or Bio Sci 501(P).
Current Offerings: http://uwm.edu/schedule

BMS 555 Toxicology and Therapeutic Drug Monitoring
1 cr. Undergraduate/Graduate.
Survey of the pharmacology and analytical methods for identification and quantitation of therapeutic and toxic substances.
Prerequisites: jr st, & Chem 341(P) or 345(P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 560 Molecular and Genetic Diagnostics
2 cr. Undergraduate/Graduate.
Introduction to principles and applications of DNA technology in the clinical laboratory.
Prerequisites:
Current Offerings: http://uwm.edu/schedule

BMS 561 Molecular Diagnostics Laboratory
1 cr. Undergraduate/Graduate.
Clinical laboratory experiences in molecular diagnostic techniques and instrumentation.
Prerequisites: jr st & BMS 560(C); or grad st & BMS 705(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 575 Cytology of the Female Genital Tract - I
4 cr. Undergraduate.
Fieldwork to include lectures discussing the normal and abnormal cytology of the female genital tract.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

BMS 576 Cytology of the Female Genital Tract - II
4 cr. Undergraduate.
Fieldwork to include laboratory experience dealing with the study of the normal and abnormal cytology of the female genital tract.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

BMS 577 Cytology of the Respiratory Tract
3 cr. Undergraduate.
Lectures and laboratory experience in the study of the normal and abnormal cytology of the respiratory tract.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

BMS 578 Cytology of the Gastrointestinal and the Genito-Urinary Tract
2 cr. Undergraduate.
Fieldwork to include lecture and laboratory experience dealing with the normal and abnormal cytology of the G.I. and G.U. tracts.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 579 Cytology of Effusions and the Central Nervous System
3 cr. Undergraduate.
Fieldwork to include lecture and laboratory experiences in the study of various body fluids in health and disease.
Prerequisites: sr st in BioMed Sci & cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 580 Aspiration Cytology
4 cr. Undergraduate.
Fieldwork to include lecture and laboratory experience dealing with aspiration cytology.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 581 Special Procedures in Cytology
1 cr. Undergraduate.
Fieldwork to include lecture and laboratory experiences dealing with special procedures used in cytological diagnosis.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 582 Cytology of the Breast
1 cr. Undergraduate.
Fieldwork to include lecture and laboratory experiences dealing with the normal and abnormal cytology of the breast.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 583 Cytology Preparation Techniques
1 cr. Undergraduate.
Fieldwork to include laboratory preparation of gynecologic and non-gynecologic cytology specimens using several different instrument methodologies.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: http://uwm.edu/schedule
BMS 585 Internship in Forensic Toxicology
1-3 cr. Undergraduate.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 585, Chem 585, BMS 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2002.
Current Offerings: http://uwm.edu/schedule

BMS 586 Cytology Lab Operations and Quality Control
1 cr. Undergraduate.
Basic administrative functions and quality control procedures utilized in the cytology laboratory.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 587 Research Methods in Cytology
1 cr. Undergraduate.
Research methods in cytology through journal club, literature reviews, case studies, and library research.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 588 Diagnostic Microscopy in Cytology
5 cr. Undergraduate.
Fieldwork in a functioning cytotechnology laboratory.
Prerequisites: sr st in BioMed Sci prog & cons prog dir.
Current Offerings: http://uwm.edu/schedule

BMS 589 Internship in Death Investigation
1-3 cr. Undergraduate.
Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.
Prerequisites: jr st, admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Crm Jst 480(P); BMS 620(R); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 589, Chem 589, BMS 589 & Crm Jst 589 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Spring 2002.
Current Offerings: http://uwm.edu/schedule

BMS 590 Topics in Clinical Laboratory Sciences:
1-5 cr. Undergraduate/Graduate.
Topics of current interest in the field of clinical laboratory sciences. The major theme for each semester offering will be posted.
Prerequisites: jr st; cons instr for grad cr.
Course Rules: May be retaken w/chg in topic to max of 9 cr for grad students.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BMS 594 Internship in Forensic Science
1-3 cr. Undergraduate.
On-site shadowing of evidence analyst at State Crime Laboratory.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 594, Chem 594, BMS(C L Sc) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

BMS 599 Independent Study
1-3 cr. Undergraduate.
Individualized experience which enables the student to study current topics of interest to the clinical laboratory scientist. Level of credit assigned based on time required for completion.
Prerequisites: cons instr & prog dir.
Course Rules: May be retaken to 12 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BMS 600 Contrast Diagnostic Imaging
3 cr. Undergraduate/Graduate.
Use of contrast media in medical imaging diagnostic procedures.
Prerequisites: jr st in Biomed Sci program; ARRT, ARDMS, or CCI Imaging Certification or completion of an Intro to Diagnostic Imaging course.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

BMS 601 Molecular Imaging for Diagnostic Imaging
3 cr. Undergraduate/Graduate.
Study of imaging principles utilized with molecular imaging. To include review of scientific publications for the use of molecular imaging to review various disease processes.
Prerequisites: jr st in Biomed Sci program; ARRT, ARDMS, or CCI Imaging Certification or completion of an Intro to Diagnostic Imaging course.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

BMS 610 Pharmacology
3 cr. Undergraduate/Graduate.
Lectures on pharmacokinetics, mechanisms of action, and physiological effects of toxic and therapeutic substances.
Prerequisites: jr st, Chem 501(P), or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 615 Cellular and Molecular Toxicology
3 cr. Undergraduate/Graduate.
Cellular and molecular mechanisms of toxicant interactions with critical target organelles and molecules and subsequent downstream cellular responses.
Prerequisites: jr st, Chem 501(P) or cons instr; or grad st.
Current Offerings: http://uwm.edu/schedule

BMS 701 Human Pathophysiology I
3 cr. Graduate.
An advanced course in basic pathological mechanisms underlying production of human disease and effects on selected organ systems.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
BMS 702 Human Pathophysiology II
3 cr. Graduate.
A continuation of 701 dealing with pathogenesis of the major diseases of human organ systems.
Prerequisites: grad st; BMS 701(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 705 Molecular Pathology
3 cr. Graduate.
Principles, methods, and applications of nucleic acid-based technologies in pathology and laboratory medicine.
Prerequisites: grad st or cons instr.
Course Rules: Counts as repeat of BMS 590 with similar topic.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2009.
Current Offerings: http://uwm.edu/schedule

BMS 710 Seminar in Biomedical Sciences
1 cr. Graduate.
Presentation of topics of current interest to the biomedical scientist.
Prerequisites: grad st or cons instr.
Course Rules: May be repeated to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BMS 717 Laboratory Technology—Theory and Practice
1 cr. Graduate.
Fundamental laboratory bench techniques common to the biological sciences to prepare students for independent research.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 718 Experimental Design, Research, and Epidemiologic Methods
1 cr. Graduate.
Fundamentals of laboratory, clinical and epidemiologic experimental design for beginning graduate students in the Health Sciences.
Prerequisites: grad st; Biostat or undergrad stats course or cons instr
Current Offerings: http://uwm.edu/schedule

BMS 750 Infection and Immunity
3 cr. Graduate.
Immunobiology of the response to infectious disease agents of humans, with resulting clinical outcomes; mechanisms of immune evasion in establishing infection and causing disease.
Prerequisites: grad st; Lec courses in immunology and microbiology or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 751 Immunopathology
3 cr. Graduate.
Examination of mechanisms by which abnormal, unwanted, or absent immune responses result in disease, including discussion of clinical presentation, diagnostic testing, and therapeutic intervention.
Prerequisites: grad st; BMS 750(P) or cons instr
Last Taught: Spring 2017, Spring 2015.
Current Offerings: http://uwm.edu/schedule

BMS 756 Current Concepts in Cancer
3 cr. Graduate.
An overview of various forms of human cancer. Emphasis on cell markers and cytomorphology, etiology and kinetics.
Prerequisites: grad st or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 765 Molecular Pathophysiology
3 cr. Graduate.
Advanced theoretical skills and an appreciation of the current scientific literature in basic and clinical physiologic chemistry.
Prerequisites: grad st or cons instr; basic college chemistry class suggested
Current Offerings: http://uwm.edu/schedule

BMS 766 Advanced Cardiovascular Hemodynamics
3 cr. Graduate.
Study of fundamental principles of fluid mechanics as applicable to physiologic and biological systems. Topics include Poiseuille flow, circulatory flow resistance.
Prerequisites: Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging
Current Offerings: http://uwm.edu/schedule

BMS 767 Comparative Analysis of Diagnostic Imaging
3 cr. Graduate.
Study of imaging principles evoked in utilizing multiple imaging modalities (DMS, CT, MRI and radiographic imaging) of both the normal and pathology findings.
Prerequisites: Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging
Current Offerings: http://uwm.edu/schedule

BMS 768 Diagnostic Imaging of Acquired Heart Disease
3 cr. Graduate.
In-depth study of how acquired heart disease is imaged in the adult patient.
Prerequisites: Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging
Current Offerings: http://uwm.edu/schedule

BMS 769 Diagnostic Imaging for Management of Cardiovascular Disease
3 cr. Graduate.
In-depth study of imaging used to monitor surgical and medical management of patients with cardiovascular disease.
Prerequisites: Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging
Current Offerings: http://uwm.edu/schedule
BMS 775 Mechanisms of Infectious Disease
2 cr. Graduate.
Molecular and cellular means by which microorganisms facilitate infection, withstand or evade immune response, induce damage to host, and ensure transmission to human populations.
Prerequisites: grad st; lc & la course in medical microbiology
Course Rules: BMS 775 & PH 775 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

BMS 780 Emerging Infectious Diseases
3 cr. Graduate.
Detailed studies of those infectious diseases with both an emerging nature and a high impact on public health.
Prerequisites: grad st; background in microbiology, BMS 534 or BMS 539 or BioSci 383 (R)
Current Offerings: http://uwm.edu/schedule

BMS 782 Advanced Immunology
3 cr. Graduate.
Cellular basis of the immune response with emphasis on immunoregulation and clinical disease manifestations resulting from altered cellular immune function.
Prerequisites: grad st; course in immunology; or cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 799 Research in Biomedical Sciences
1-8 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 901 Seminar on Philosophical Approaches to Science
3 cr. Graduate.
The nature and function of sciences, the logic of the scientific method as it relates to health, and implications of research and practices in health care.
Prerequisites: grad st.
Course Rules: BMS 901 & LibrlSt 901 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

BMS 909 Guided Teaching Experience in Health Sciences
3 cr. Graduate.
This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.
Prerequisites: grad st; Occ Thpy 900(P); cons instr
Course Rules: Jointly offered w/ and counts as a repeat of HCA 909.
Current Offerings: http://uwm.edu/schedule

BMS 910 Advanced Seminar in Health Sciences
1 cr. Graduate.
Faculty, students, and guests present research topics in the Health Sciences.
Prerequisites: grad st
Course Rules: Retakable to 4 cr max.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BMS 990 Research and Dissertation
1-6 cr. Graduate.
Preparation of a dissertation under the direction of the student's primary and secondary advisors.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

BMS 999 Advanced Independent Study
1-3 cr. Graduate.
Individualized experience enables student to study current topics of interest to the biomedical scientist. Level of credit assigned based on time required for completion.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Shahla Anders</td>
<td>Clinical Assistant Professor</td>
<td>MEd</td>
<td>Carroll University</td>
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<tr>
<td>Anthony Azenabor</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Benin</td>
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<tr>
<td>Cynthia Brown</td>
<td>Clinical Associate Professor</td>
<td>MA</td>
<td>Central Michigan University</td>
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<tr>
<td>Daniel Cordas</td>
<td>Clinical Instructor</td>
<td>BS</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Lora deOliveria</td>
<td>Outreach Program Manager II</td>
<td>MBA, MPH</td>
<td>Marquette University, University of Minnesota</td>
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<tr>
<td>Bradley DePons</td>
<td>Laboratory Manager</td>
<td>MLS</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>Jennifer Doll</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Washington University</td>
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<tr>
<td>Janis Eells</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
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<tr>
<td>Margaret Hirschfeld</td>
<td>Clinical Assistant Professor</td>
<td>BS</td>
<td>University of Saint Francis, IL</td>
<td></td>
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</tr>
<tr>
<td>Melissa Klug</td>
<td>Clinical Instructor</td>
<td>BS</td>
<td>Concordia University</td>
<td></td>
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</tr>
</tbody>
</table>
Biomedical Sciences, BS: Biomedical Science

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

Biomedical Science

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. This submajor provides excellent preparation for medical, physician assistant, dental, or veterinary school, biomedical research, forensic science, or employment with pharmaceutical or biotechnology companies.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Biomedical Sciences Requirements (p. 802)</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td>Pre-Clinical Requirements (p. 803)</td>
<td>31</td>
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<tr>
<td></td>
<td>Biomedical Science Submajor Requirements (p. 803)</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
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</table>

Biomedical Sciences Requirements

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER) (p. 33);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
   a. all required courses and electives (87 credits) through the second semester of junior year for students pursuing or Biomedical Sciences, Cytotechnology, or Medical Laboratory Science;
   b. all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
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<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
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<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
</tbody>
</table>
Pre-Clinical Requirements

The junior year for students pursuing the Biomedical Science, Cytotechnology, or Medical Laboratory Science submajor consists primarily of pre-clinical courses, and the senior year is a 12-month professional training experience.

Medical Laboratory Science and Cytotechnology students must be prepared for full-time study (40 hours per week) that could also require additional study time at night and on weekends.

### Biomedical Science Submajor Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<td>BMS 531</td>
<td>Advanced Lectures in the Clinical Laboratory Sciences</td>
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<td>BMS 547</td>
<td>Clinical Laboratory Diagnosis</td>
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<td>BMS 549</td>
<td>Professional Development in Clinical Laboratory Sciences</td>
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<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
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<td>BMS 599</td>
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<tr>
<td>Electives</td>
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</table>

1. Electives posted in final year only necessary to complete credit requirement for graduation.

2. BMS 101 and BMS 205 are highly recommended but not required.

### Biomedical Sciences Requirements

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<td>Anatomy and Physiology I</td>
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<td>BMS 101</td>
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<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine 1</td>
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<td>CHEM 102</td>
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<td>GER Elective: Arts</td>
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<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
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<td>GER Elective: Humanities</td>
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<td>Introduction to Molecular and Cellular Biology</td>
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<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
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<td>Human Pathophysiology: Organ Systems II</td>
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<td>Introductory Survey of Organic Chemistry</td>
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<td>Year 3 Semester 1</td>
<td>Review of Human Pathology</td>
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<td>BIO SCI 325</td>
<td>Genetics</td>
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<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
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<td>KIN 270</td>
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<tr>
<td>Year 4 Semester 2</td>
<td>Review of Human Pathology</td>
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<td>Genetics</td>
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<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
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<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
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GER Elective: Social Science 3

GER Elective: Social Science 3

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<td><strong>Year 3</strong></td>
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<td>BIO SCI 383 General Microbiology</td>
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<td>BMS 431 Clinical Chemistry</td>
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<td>BMS 432 Clinical Chemistry Laboratory Theory &amp; Operations</td>
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<td>BMS 534 Medical Microbiology</td>
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<td>BMS 535 Medical Microbiology Laboratory</td>
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<td>BMS 560 Molecular and Genetic Diagnostics</td>
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<td>Summer</td>
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<td>BMS 521 Applied Clinical Hematology</td>
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<td>BMS 522 Hemostasis</td>
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<td>BMS 536 Applied Clinical Microbiology</td>
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<td>BMS 537 Medical Parasitology and Mycology</td>
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1 BMS 101 and BMS 205 are highly recommended but not required.

2 ENGLISH 207 is required for students without any credit prior to Fall 2013.

**Biomedical Science Submajor Requirements**

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<tr>
<th>Course</th>
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<tr>
<td>Semester 1</td>
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<td>BMS 523</td>
<td>Lectures in Advanced Clinical Hematology</td>
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</tr>
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<td>BMS 547</td>
<td>Clinical Laboratory Diagnosis</td>
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<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
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<td>BMS 599</td>
<td>Independent Study</td>
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<tr>
<td>Semester 2</td>
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<tr>
<td>BMS 531</td>
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<td>BMS 549</td>
<td>Professional Development in Clinical Laboratory Sciences</td>
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<td>BMS 599</td>
<td>Independent Study</td>
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<tr>
<td>Total Credits</td>
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</table>

**Honors in the Major**

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

**Honors in the College of Health Sciences**

**Dean's Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Biomedical Sciences, BS: Cytotechnology**

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

**Cytotechnology**

Cytotechnologists examine human cells under the microscope, looking for early signs of cancer or other diseases. When abnormal cells are detected, the cytotechnologist works with a pathologist to arrive at a final diagnosis. The Cytotechnology program is accredited by the Commission on Accreditation of Allied Health Programs (CAAHEP), www.caahep.org (http://www.naacls.org), located at 1361 Park St., Clearwater, FL 33756. Students successfully completing this program are eligible to sit for a national certification exam.
**Requirements**

**Biomedical Sciences Requirements**

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER) (p. 33);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
   a. all required courses and electives (87 credits) through the first semester of junior year for students pursuing the Biomedical Science, Cytotechnology, or Medical Laboratory Science;
   b. all required courses and electives (114 credits) through the second semester of junior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

**Pre-Clinical Requirements**

The junior year for students pursuing the Biomedical Science, Cytotechnology, or Medical Laboratory Science submajor consists primarily of pre-clinical courses, and the senior year is a 12-month professional training experience.

Medical Laboratory Science and Cytotechnology students must be prepared for full-time study (40 hours per week) that could also require additional study time at night and on weekends.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II ¹</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics ¹</td>
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</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology ¹</td>
<td>4</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals and Human Pathophysiology: Organ Systems I</td>
<td>5</td>
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<tr>
<td>&amp; BMS 302</td>
<td>Human Pathophysiology: Organ Systems II</td>
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<tr>
<td>&amp; BMS 303</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<tr>
<td>&amp; BMS 304</td>
<td>Human Pathophysiology: Organ Systems IV ¹</td>
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<td>BMS 427</td>
<td>Clinical Immunology ¹</td>
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<td>BMS 428</td>
<td>Clinical Immunology Laboratory ¹</td>
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<td>BMS 534</td>
<td>Medical Microbiology</td>
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<td>Applied Clinical Microbiology</td>
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<td>BMS 537</td>
<td>Medical Parasitology and Mycology</td>
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<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
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<td>BMS 561</td>
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<td>CHEM 102</td>
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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis ¹</td>
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<td>Introductory Survey of Organic Chemistry ¹</td>
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<td>HS 224</td>
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<td>KIN 270</td>
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</table>

¹ Course counts towards a student’s science GPA.

<table>
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<tr>
<td>BMS 101</td>
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<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine ²</td>
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<td>Clinical Hematology</td>
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<td>Hemostasis</td>
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**Degree Requirements**

**University Core**

**Competency Requirements**

Oral and Written Communication (OWC) Part A & B
Quantitative Literacy (QL) Part A & B

**Distribution Requirements**

Arts ³
Cultural Diversity ³
Humanities ³
Natural Sciences ³
Social Sciences ³

**Biomedical Science Core**

<table>
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<tr>
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<td>BIO SCI 202</td>
<td>Anatomy and Physiology I ¹</td>
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BMS 534 Medical Microbiology 3
BMS 535 Medical Microbiology Laboratory 2
BMS 536 Applied Clinical Microbiology 2
BMS 537 Medical Parasitology and Mycology 2
BMS 541 Urinalysis 1
BMS 542 Applied Clinical Chemistry 2
BMS 560 Molecular and Genetic Diagnostics 2
BMS 561 Molecular Diagnostics Laboratory 1

2  BMS 101 and BMS 205 are highly recommended but not required.

Cytotechnology Submajor Requirements

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<td>BMS 578</td>
<td>Cytology of the Gastrointestinal and the Genito-Urinary Tract</td>
<td>2</td>
</tr>
<tr>
<td>BMS 579</td>
<td>Cytology of Effusions and the Central Nervous System</td>
<td>3</td>
</tr>
<tr>
<td>BMS 580</td>
<td>Aspiration Cytology</td>
<td>4</td>
</tr>
<tr>
<td>BMS 581</td>
<td>Special Procedures in Cytology</td>
<td>1</td>
</tr>
<tr>
<td>BMS 582</td>
<td>Cytology of the Breast</td>
<td>1</td>
</tr>
<tr>
<td>BMS 583</td>
<td>Cytology Preparation Techniques</td>
<td>1</td>
</tr>
<tr>
<td>BMS 586</td>
<td>Cytology Lab Operations and Quality Control</td>
<td>1</td>
</tr>
<tr>
<td>BMS 587</td>
<td>Research Methods in Cytology</td>
<td>1</td>
</tr>
<tr>
<td>BMS 588</td>
<td>Diagnostic Microscopy in Cytology</td>
<td>5</td>
</tr>
</tbody>
</table>

Students apply to be admitted to the State Hygiene Lab in Madison, WI for their clinical rotations.

Biomedical Sciences Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BMS 101</td>
<td>Introduction to Clinical Laboratory Sciences</td>
<td>2</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GER Elective: Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td>17</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>GER Elective: Humanities</td>
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<td>3</td>
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<td>Year 2</td>
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<tr>
<td>Semester 1</td>
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<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
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<tr>
<td>BMS 301</td>
<td>Human Pathophysiology Fundamentals</td>
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<tr>
<td>BMS 302</td>
<td>Human Pathophysiology Organ Systems I</td>
<td>1</td>
</tr>
<tr>
<td>BMS 303</td>
<td>Human Pathophysiology Organ Systems II</td>
<td>1</td>
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<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry</td>
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<tr>
<td>CHEM 342</td>
<td>Introductory Organic Chemistry Laboratory</td>
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<td><strong>Total Credits</strong></td>
<td>102</td>
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</tbody>
</table>

1  BMS 101 and BMS 205 are highly recommended but not required.
2  ENGLISH 207 is required for students without any credit prior to Fall 2013.

Cytotechnology Submajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>BMS 501</td>
<td>Introduction to Cytotechnology</td>
<td>1</td>
</tr>
<tr>
<td>BMS 575</td>
<td>Cytology of the Female Genital Tract - I</td>
<td>4</td>
</tr>
<tr>
<td>BMS 576</td>
<td>Cytology of the Female Genital Tract - II</td>
<td>4</td>
</tr>
<tr>
<td>BMS 577</td>
<td>Cytology of the Respiratory Tract</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td>12</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMS 578</td>
<td>Cytology of the Gastrointestinal and the Genito-Urinary Tract</td>
<td>2</td>
</tr>
<tr>
<td>BMS 579</td>
<td>Cytology of Effusions and the Central Nervous System</td>
<td>3</td>
</tr>
<tr>
<td>BMS 580</td>
<td>Aspiration Cytology</td>
<td>4</td>
</tr>
<tr>
<td>BMS 581</td>
<td>Special Procedures in Cytology</td>
<td>1</td>
</tr>
<tr>
<td>BMS 582</td>
<td>Cytology of the Breast</td>
<td>1</td>
</tr>
</tbody>
</table>
Honors in the Major
Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Biomedical Sciences, BS: Diagnostic Imaging Completion
Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

Diagnostic Imaging Degree Completion
Offered Online and in the UW Flexible Option format.

To be eligible for the Diagnostic Imaging degree completion program, you must hold active registry from one of the following: the American Registry of Radiologic Technologists (ARRT), the American Registry of Diagnostic Medical Sonography (ARDMS), Cardiovascular Credentialing International (CCI), or equivalent professional imaging registry. The program, which provides the opportunity to complete a baccalaureate degree in diagnostic imaging (BSDI), consists of 120 credits with students receiving 60 credits for holding an active registry. Students entering the program with an Associate's Degree will typically complete 60 credits to be eligible for graduation; students entering the program with hospital-based diploma credits only may have additional credits to satisfy graduation. Prospective students are strongly encouraged to meet with an academic advisor to have their previous credits evaluated. Please contact an academic advisor at (414) 229-2758.

The degree-completion program is designed for non-traditional adult students who have already worked several years as a healthcare professional and can be completed 100% online. This program will prepare you to assume a wide range of positions and leadership roles in hospitals and clinics, including quality-assurance manager, healthcare administrator, diagnostic imaging educator, and others that require a bachelor’s degree for entry, such as occupational therapist, physical therapist, and physician’s assistant. With a bachelor of science in diagnostic imaging degree, you will also be qualified to expand your career into other areas of the medical imaging industry, from product development to sales and marketing.

Students may also choose to complete the program via the UW Flexible Option. The Flex Option is especially designed for self-motivated nontraditional students who want their previous schooling, work skills, and prior knowledge to apply toward degrees or certificates. The competency-based and self-paced format of the UW Flexible Option fits the schedules of students who must balance work and family responsibilities with educational goals. Because most Flexible Option competencies and assessments are delivered online, students have the opportunity to learn when and where they choose.

Diagnostic Imaging Degree Completion Requirements
Offered Online and in the UW FLEX Option format

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Awarded for the Active Registry</td>
<td>60</td>
</tr>
<tr>
<td>Major Requirements</td>
<td></td>
<td>60</td>
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<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

The degree completion program in Diagnostic Imaging is open to professionals holding an active registry from ARRT, ARDMS, CCI, or equivalent professional imaging registry. Students will be awarded 60 credits toward their degree completion for the active registry. Students will then complete a minimum of 60 additional credits toward the baccalaureate degree. The 60 credits needed may be completed completely online. The minimum degree requirement for completion is 120 credits including:
1. Completion of UWM’s General Education Requirements (GER) (p. 33)
2. A cumulative UWM GPA of 2.5
3. Completion of the following courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awarded for Active Registry</td>
<td>60 credits</td>
<td>60</td>
</tr>
</tbody>
</table>

**Major Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
<td>3</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 206 or ENGLISH 207</td>
<td>Technical Writing or Health Science Writing</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>BMS 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Health Sciences/Diagnostic Imaging**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
<td>1</td>
</tr>
<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
<td>1</td>
</tr>
<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
<td>1</td>
</tr>
<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
<td>1</td>
</tr>
<tr>
<td>HS 311</td>
<td>Law for Healthcare Consumers and Professionals</td>
<td>3</td>
</tr>
<tr>
<td>KIN 400</td>
<td>Ethics and Values in the Health and Fitness Professions</td>
<td>3</td>
</tr>
<tr>
<td>DMI 458</td>
<td>Seminar in Advanced Medical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>DMI 463</td>
<td>Seminar in Education and Management in Medical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>UWS NSG 453</td>
<td>Information Management and Healthcare Technology (or NURS 453X - Flex equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>BMS 5XX</td>
<td>Professional Growth and Career Advancement in Diagnostic Imaging Professions</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

| Select 19 credits |          | 19     |

**Total Credits**

| 120 |

---

1. Completed with a grade of C or better.

Students must complete all requirements within 6 years of entering the program.

Students interested in UW Flexible Option should visit http://flex.wisconsin.edu/degrees-programs/diagnostic-imaging/ for additional information.

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**Honors in the Major**

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**Honors in the College of Health Sciences Dean's Honor List**

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**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

---

**Biomedical Sciences, BS: Diagnostic Medical Sonography**

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

**Diagnostic Medical Sonography**

By using high-frequency sound waves or ultrasound, sonographers produce images of soft tissue and blood flow to assist with the diagnostic process or administration of therapeutic application. Sonography is used to examine the abdomen, breast tissue, female reproductive system, urinary system, heart, and blood vessels. In addition,
sound waves are used to guide fine-needle biopsy. Diagnostic Medical Sonography students complete the first two years of prerequisite courses on campus before applying for placement into the professional education portion of the curriculum. Once accepted into the professional education component of the program, students will take didactic and clinical education courses concurrently. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national board exams offered through the American Registry for Diagnostic Medical Sonography (www ardms.org (http://www.ardms.org)). The Diagnostic Medical Sonography professional education program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org (http://www.caahep.org)) upon recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography.

Commission on Accreditation of Allied Health Education Programs (CAAHEP) 25400 U.S. Highway 19 North, Suite 158 Clearwater, FL 33763 (727) 210-2354

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Preclinical Requirements</td>
<td>58</td>
</tr>
<tr>
<td></td>
<td>Professional and Clinical Training</td>
<td>72</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>130</td>
</tr>
</tbody>
</table>

Students pursuing Diagnostic Medical Sonography complete the freshman and sophomore years on campus. Upon advancement to the major, students complete the professional training curriculum (junior and senior years) at either the on-campus UWM sonography program or through the external sonography program offered at UW Hospital & Clinics (UWHC) in Madison. Two educational options are available: General/Vascular Sonography or Echocardiography/Vascular Sonography. The Echocardiography/Vascular Sonography option is only available through external program at UWHC. The internal clinical affiliates through UWM include clinical sites in the Milwaukee area for general/vascular. Students are responsible for any relocation and all living expenses during clinical training. Entry into the professional curriculum is highly competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER) (p. 33);
2. Completion of all required courses and electives (60 credits) in the freshman and sophomore semesters with a cumulative GPA of 3.0;
3. Successful completion of the professional education application process to include an on-site interview with the external sonography programs and/or the UWM sonography program;
4. Successful completion of a background check, health physical, drug screen, and maintenance of health insurance and CPR certification for the duration of the professional curriculum;
5. Students are required to earn a grade of C or better in the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 110</td>
<td>Physics for the Health Professions</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
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</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
<td>1</td>
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<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
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<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
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</tr>
<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
<td>1</td>
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</tbody>
</table>

6. Complete job-shadowing in an imaging department with a Diagnostic Medical Sonography professional prior to applying for placement into the professional education component;
7. Complete the American Heart Association Basic Life Support CPR and AED Training for Healthcare Professionals; and
9. Interview with the program.

Note: 100 hours of patient care beyond the CNA course are required for placement at UW Hospital and Clinics School of Diagnostic Medical Sonography. Documentation verifying the 100 hours and evaluation of job performance will be required. Completing the CNA course and hours by the professional training application deadline of November 1 is recommended.

Additional information is available from the Office of Student Affairs, (414) 229-2758.

Admission into the professional training curriculum is highly competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional training curriculum, students must adhere to all program policies and procedures.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Preclinical Requirements</td>
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</tr>
<tr>
<td></td>
<td>General Education Requirements</td>
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</tr>
<tr>
<td></td>
<td>Oral and Written Communication (OWC) Competency A &amp; B</td>
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<tr>
<td></td>
<td>Quantitative Literacy (QL) Competency A and B</td>
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<td></td>
<td>Foreign Language Competency</td>
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<td>Humanities:</td>
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<td></td>
<td>PHILOS 244</td>
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<td></td>
<td>Ethical Issues in Health Care:</td>
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<td></td>
<td>COMMUN 103</td>
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<td></td>
<td>Social Sciences 1</td>
<td>3</td>
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<td></td>
<td>Cultural Diversity 1</td>
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<tr>
<td></td>
<td>Major Requirements</td>
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</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
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</tr>
<tr>
<td>HS 250</td>
<td>Allied Health Information Methods</td>
<td>2</td>
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<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>Survey of Biochemistry</td>
<td>5</td>
</tr>
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<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
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<tr>
<td>PHYSICS 110</td>
<td>Physics for the Health Professions</td>
<td>4</td>
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### Pre-Professional Training Requirements

#### Course Title Credits

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<tbody>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I (Requires Grade of C or Better)</td>
<td>4</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Chemical Science (Requires Grade of C or Better)</td>
<td>5</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
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<table>
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<th>Year 1</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II (Requires Grade of C or Better)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>Survey of Biochemistry</td>
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</tr>
<tr>
<td>HS 224</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>DMI 101</td>
<td>Introduction to Medical Imaging</td>
<td>3</td>
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<td><strong>Credits</strong></td>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
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<td>PHYSICS 110</td>
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<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals (Requires Grade of C or Better)</td>
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<td>Human Pathophysiology: Organ Systems I (Requires Grade of C or Better)</td>
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### Professional Training Curriculum Course List: General/Vascular

(Curriculum course list and sequence provided to student upon advancement to major.)

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<td>DMI 446</td>
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<tr>
<td>DMI 447</td>
<td>Seminar in Education and Management in Imaging</td>
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</table>

**Honors in the Major**

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

**Honors in the College of Health Sciences**

**Dean's Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Biomedical Sciences, BS: Health Science Completion**

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
• Cytotechnology
• Radiologic Technology
• Diagnostic Medical Sonography
• Diagnostic Imaging (degree completion program)
• Health Science (degree completion program)
• Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

Health Sciences Degree Completion
Offered Online and in the UW Flexible Option format.

This interdisciplinary degree completion in Health Sciences is open to those holding an Associate's degree in a health-related profession and an active certification or license in a related health profession. Applicants with the required credentials are awarded 60 credits and will then complete a minimum of 60 additional credits toward the baccalaureate degree. Students with GER requirements or those planning application to specific professional graduate programs may need to complete more than 60 credits. Coursework may be completed online. The availability of this degree completion program in a Flex Option competency-based format is pending approval as of the publication date of this Catalog.

Prospective students are strongly encouraged to meet with an academic advisor to have their previous credits evaluated. Please contact an academic advisor at (414) 229-2758.

This degree completion program will prepare you to assume a wide range of positions and leadership roles in hospitals and clinics, including quality-assurance manager, healthcare administrator, health educator, and others that require a bachelor's degree for entry, such as occupational therapist, physical therapist, and physician's assistant.

Health Sciences Degree Completion Requirements
Offered Online and in the UW Flexible Option format.

This interdisciplinary degree completion in Health Sciences is open to those holding an Associate's degree in a health-related profession and an active certification or license in a related health profession. Applicants with the required credentials are awarded 60 credits and will then complete a minimum of 60 additional credits toward the baccalaureate degree. Students with GER requirements or those planning application to specific professional graduate programs may need to complete more than 60 credits. Coursework may be completed online or in a flexible, competency-based format.

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<td>Major Requirements</td>
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The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM's General Education Requirements (GER) (p. 33), and
2. Completion of math and English competency requirements, and
3. A cumulative UWM GPA of 2.5, and
4. A minimum of 30 credits from UWM.

<table>
<thead>
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<tr>
<td></td>
<td>Awarded for Active Certification or License</td>
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</tbody>
</table>

|        | Major Requirements                                   | 60      |
|        | Required                                              |         |
|        | Select 17 of the following:                           | 51      |
|        | HS 102 Healthcare Delivery in the United States       |         |
|        | HS 105 Survey of the Health Professions               |         |
|        | HCA 220 Leading Healthcare Professionals              |         |
|        | BMS 590 Topics in Clinical Laboratory Sciences:       |         |
|        | ENGLISH 207 Health Science Writing (OWC-B GER)        |         |
|        | or ENGLISH 206 Technical Writing                      |         |
|        | HS 250 Allied Health Information Methods (or equivalent)|         |
|        | BMS 205 Introduction to Diagnostic Medicine           |         |
|        | ECON 210 Economic Statistics (or equivalent)          |         |
|        | INFOST 110 Introduction to Information Science and Technology |         |
|        | UWS NSG 453 Information Management and Healthcare Technology (or NURS 453X - Flex) | |
|        | or HCA 537 Introduction to Healthcare Databases and Technologies | |
|        | HS 311 Law for Healthcare Consumers and Professionals |         |
|        | KIN 400 Ethics and Values in the Health and Fitness Professions |         |
|        | BMS 590 Topics in Clinical Laboratory Sciences:       |         |
|        | BMS 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective | |
|        | THERREC 202 Disability: Society and the Person        |         |
|        | THERREC 303 Inclusive and Disability Programs in the Community | |

<table>
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<th>Electives</th>
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<tbody>
<tr>
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<td>120</td>
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</tbody>
</table>

Students must complete all requirements within 6 years of entering the program.

Students interested in UW Flexible Option should visit http://flex.wisconsin.edu/degrees-programs/health-sciences/ for additional information.

Honors in the Major
Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.
Honors in the College of Health Sciences

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Biomedical Sciences, BS: Medical Laboratory Science

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

Medical Laboratory Science

Medical laboratory scientists are trained in the theoretical and practical aspects of laboratory medicine, which are critical to the detection, diagnosis, and treatment of diseases. Medical Laboratory Science offers a wide variety of career options, including hospitals, clinics, independent laboratories, public health facilities, business, industry, research, sales, and marketing. Students also may use this major to prepare for medical or graduate school. Students successfully completing this program are eligible to sit for a national certification exam offered by the American Society for Clinical Pathology (ASCP-BOC). The UWM Medical Laboratory Science Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), www.naacls.org (http://www.naacls.org), located at 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119.

Requirements

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<td>Biomedical Sciences Requirements (p. 813)</td>
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<td>Pre-Clinical Requirements (p. 814)</td>
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<td>Medical Laboratory Submajor Requirements (p. 814)</td>
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Biomedical Sciences Requirements

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER) (p. 33);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
   a. all required courses and electives (87 credits) through the second semester of junior year for students pursuing Biomedical Sciences, Cytotechnology, or Medical Laboratory Science;
   b. all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

Degree Requirements

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<td>Quantitative Literacy (QL) Part A &amp; B</td>
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Biomedical Science Core

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<td>Human Pathophysiology: Fundamentals</td>
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<td>&amp; BMS 302</td>
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<td>Applied Clinical Microbiology</td>
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<td>BMS 537</td>
<td>Medical Parasitology and Mycology</td>
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<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry</td>
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<td>CHEM 342</td>
<td>Introductory Organic Chemistry</td>
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</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
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<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
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<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
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</table>

1 Course counts towards a student’s science GPA.

Medical Laboratory Submajor Requirements

<table>
<thead>
<tr>
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<th>Title</th>
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<tr>
<td>BMS 523</td>
<td>Lectures in Advanced Clinical Hematology</td>
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<tr>
<td>BMS 529</td>
<td>Introduction to Immunohematology</td>
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<tr>
<td>BMS 524</td>
<td>Advanced Clinical Hematology Practicum</td>
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<td>BMS 530</td>
<td>Immunohematology and Blood Banking Laboratory</td>
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<td>BMS 531</td>
<td>Advanced Lectures in the Clinical Laboratory Sciences</td>
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</tr>
<tr>
<td>BMS 532</td>
<td>Advanced Clinical Immunohematology and Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 538</td>
<td>Advanced Clinical Microbiology Practicum</td>
<td>3</td>
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<tr>
<td>BMS 544</td>
<td>Advanced Clinical Chemistry Practicum</td>
<td>3</td>
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<td>BMS 547</td>
<td>Clinical Laboratory Diagnosis</td>
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<td>BMS 548</td>
<td>Clinical Laboratory Practice</td>
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<td>BMS 549</td>
<td>Professional Development in Clinical Laboratory Sciences</td>
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<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
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</table>

Pre-Clinical Requirements

The junior year for students pursuing the Biomedical Science, Cytotechnology, or Medical Laboratory Science submajor consists primarily of pre-clinical courses, and the senior year is a 12-month professional training experience.

Biomedical Sciences Requirements

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
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<tr>
<td></td>
<td>BMS 101</td>
<td>Introduction to Clinical Laboratory Sciences</td>
<td>2</td>
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<tr>
<td></td>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>2</td>
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<td>CHEM 102</td>
<td>General Chemistry</td>
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<td>Semester 2</td>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td></td>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<td></td>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GER Elective: Humanities</td>
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<tr>
<td></td>
<td>Credits</td>
<td>15</td>
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</tbody>
</table>
Year 2
Semester 1
BIO SCI 150 Foundations of Biological Sciences I 4
BMS 301 Human Pathophysiology: Fundamentals 1
BMS 302 Human Pathophysiology: Organ Systems I 1
BMS 303 Human Pathophysiology: Organ Systems II 1
CHEM 341 Introductory Survey of Organic Chemistry 3
CHEM 342 Introductory Organic Chemistry Laboratory 2
ENGLISH 207 Health Science Writing (OWCB) 2 3

Credits 15
Semester 2
BIO SCI 325 Genetics 4
BMS 304 Human Pathophysiology: Organ Systems III 1
BMS 305 Human Pathophysiology: Organ Systems IV 1
KIN 270 Statistics in the Health Professions: Theory and Practice (QLB) 3
GER Elective: Social Science 3
GER Elective: Social Science 3

Credits 15
Year 3
Semester 1
BIO SCI 383 General Microbiology 4
BMS 427 Clinical Immunology 3
BMS 428 Clinical Immunology Laboratory 1
CHEM 501 Introduction to Biochemistry 3
GER Elective: Humanities 3

Credits 14
Semester 2
BMS 420 Clinical Hematology 3
BMS 421 Introduction To Hematology Laboratory 1
BMS 431 Clinical Chemistry 3
BMS 432 Clinical Chemistry Laboratory Theory & Operations 1
BMS 534 Medical Microbiology 3
BMS 535 Medical Microbiology Laboratory 2
BMS 560 Molecular and Genetic Diagnostics 2
BMS 561 Molecular Diagnostics Laboratory 1

Credits 16
Year 4
Summer
BMS 521 Applied Clinical Hematology 2
BMS 522 Hemostasis 1
BMS 536 Applied Clinical Microbiology 2
BMS 537 Medical Parasitology and Mycology 2
BMS 541 Urinalysis 1
BMS 542 Applied Clinical Chemistry 2

Credits 10
Total Credits 102

1 BMS 101 and BMS 205 are highly recommended but not required.
2 ENGLISH 207 is required for students without any credit prior to Fall 2013.

Honors in the Major
Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Biomedical Sciences, BS: Public Health Microbiology
Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
• Health Science (degree completion program)
• Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

Public Health Microbiology
Public health microbiology prepares students for a career in the laboratory disciplines of public health. Specifically, students will be educated in a broad range of sciences in order to perform investigatory and laboratory-based analyses of environmental samples for microbial contaminants of interest. Emphasis is placed on pathogenic disease and the human populations that they affect. Students successfully completing this program may sit for the American Society for Clinical Pathology (ASCP-BOC) Technologist in Microbiology national certification exam.

Requirements
Students must achieve the satisfactory completion of 130 credits.

Biomedical Science Requirements
Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER) (p. 33);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
   a. all required courses and electives (87 credits) through the second semester of junior year for students pursuing Biomedical Sciences, Cytotechnology, or Medical Laboratory Science;
   b. all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<td>University Core</td>
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<tr>
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<td>Competency Requirements</td>
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</table>

Oral and Written Communication (OWC) Part A & B
Quantitative Literacy (QL) Part A & B
Foreign Language

Distribution Requirements

| Arts | 3 |
| Cultural Diversity | 3 |
| Humanities | 6 |
| Natural Sciences | 6 |
| Social Sciences | 6 |

Biomedical Science Core

<table>
<thead>
<tr>
<th>Code</th>
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<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
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<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
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<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
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<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
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<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
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<tr>
<td>BMS 301</td>
<td>Human Pathophysiology Fundamentals and Human Pathophysiology: Organ Systems I</td>
<td>5</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems II</td>
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<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems IV</td>
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<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
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<td>BMS 427</td>
<td>Clinical Immunology</td>
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<td>BMS 428</td>
<td>Clinical Immunology Laboratory</td>
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<td>Medical Microbiology</td>
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<td>Medical Microbiology Laboratory</td>
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<td>Applied Clinical Microbiology</td>
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<tr>
<td>BMS 537</td>
<td>Medical Parasitology and Mycology</td>
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<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
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<td>Molecular Diagnostics Laboratory</td>
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<td>CHEM 104</td>
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<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
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<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
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</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Course counts towards a student's science GPA.

Public Health Microbiology Requirements
Students in the Public Health Microbiology submajor complete an eight-week internship with the City of Milwaukee Health Department. The process of application to the professional training occurs at the end of the first semester of the junior year.
During the fall semester of their senior year, students enrolled in the Public Health Microbiology submajor will enroll in BMS 599 with both Cindy Brown and Dr. Anthony Azenabor for two credits, but participate in BMS 547.

<table>
<thead>
<tr>
<th>Code</th>
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<td>BIO SCI 405</td>
<td>General Virology</td>
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<td>BMS 201</td>
<td>Sexually Transmitted Diseases and AIDS</td>
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<tr>
<td>BMS 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
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<td>BMS 531</td>
<td>Advanced Lectures in the Clinical Laboratory Sciences</td>
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<td>BMS 538</td>
<td>Advanced Clinical Microbiology Practicum</td>
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<td>BMS 599</td>
<td>Independent Study</td>
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<td>ENGLISH 205</td>
<td>Business Writing</td>
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<td>HCA 212</td>
<td>Drugs Used and Abused</td>
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<td>HCA 307</td>
<td>Epidemiology for the Health Sciences</td>
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<td>HS 101</td>
<td>Introduction to Health and Disease</td>
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<td>HS 311</td>
<td>Law for Healthcare Consumers and Professionals</td>
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<td>HS 222</td>
<td>Language of Medicine</td>
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</table>

2 During the fall semester of their senior year, students enrolled in the Public Health Microbiology submajor will enroll in BMS 599 with both Cindy Brown and Dr. Anthony Azenabor for two credits, but participate in BMS 547.

<table>
<thead>
<tr>
<th>Course</th>
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<td>HS 101</td>
<td>Introduction to Health and Disease</td>
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<td>HS 222</td>
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<tr>
<td>Credits</td>
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</table>

| Semester 2 | Genetics                                                 | 4       |
| BMS 201    | Sexually Transmitted Diseases and AIDS                   | 3       |
| BMS 245    | Client Diversity in Health Sciences: An Interdisciplinary Perspective | 3       |
| BMS 304    | Human Pathophysiology: Organ Systems III                 | 1       |
| BMS 305    | Human Pathophysiology: Organ Systems IV                  | 1       |
| KIN 270    | Statistics in the Health Professions: Theory and Practice (GLB) | 3       |
| Credits    |                                                            | 15      |

Year 3

| Semester 1 | General Microbiology                                      | 4       |
| BMS 427    | Clinical Immunology                                       | 3       |
| BMS 428    | Clinical Immunology Laboratory                            | 1       |
| CHEM 501   | Introduction to Biochemistry                              | 3       |
| HCA 212    | Drugs Used and Abused                                     | 3       |
| Electives  |                                                            | 14      |

Semester 2

| BMS 534    | Medical Microbiology                                      | 3       |
| BMS 535    | Medical Microbiology Laboratory                           | 2       |
| BMS 560    | Molecular and Genetic Diagnostics                        | 2       |
| BMS 561    | Molecular Diagnostics Laboratory                          | 1       |
| HCA 307    | Epidemiology for the Health Sciences                      | 3       |
| HS 311     | Law for Healthcare Consumers and Professionals            | 3       |
| ENGLISH 205| Business Writing (OWCB)                                   | 3       |
| Credits    |                                                            | 17      |

Summer

| Electives  | Applied Clinical Microbiology                             | 2       |
| BMS 537    | Medical Parasitology and Mycology                         | 2       |
| Electives  |                                                            | 4       |
| Credits    |                                                            | 8       |

| Semester 1 | Public Health Microbiology                                | 2       |
| BMS 540    | Public Health Microbiology Lab                            | 2       |
| BMS 555    | Toxicology and Therapeutic Drug Monitoring                | 1       |
| BMS 599    | Independent Study                                          | 2       |
| BIO SCI 350| Human Parasitology                                         | 4       |
| BIO SCI 405| General Virology                                           | 3       |
| GER Elective: Humanities |                                                        | 3       |
| Credits    |                                                            | 17      |

| Semester 2 | Advanced Lectures in the Clinical Laboratory Sciences  | 1       |
| BMS 531    | Advanced Clinical Microbiology Practicum                  | 3       |
| BMS 538    | Clinical Laboratory Practice                              | 5       |
| BMS 549    | Professional Development in Clinical Laboratory Sciences  | 3       |
| GER Elective: Humanities |                                                        | 3       |
| Credits    |                                                            | 15      |
| Total Credits |                                                        | 130     |

Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Biomedical Sciences, BS: Radiologic Technology

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

Radiologic Technology

Radiologic technologists, or radiographers, use X-Rays and administer contrast media to produce images of the human skeleton, chest, digestive tract, and urinary system. The radiographer works closely with the radiologist or physician. Students complete the first two years of prerequisite courses on campus before applying for placement into the professional education portion of the curriculum. Once accepted into the professional education component of the program, students will take didactic and clinical education courses concurrently. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national registry exam administered by the American Registry of Radiologic Technologists (www.arrt.org (https://www.arrt.org)).

The Radiologic Technology professional education programs are accredited by:

Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606. www.jrcert.org (http://www.jrcert.org)

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pre-Professional Requirements (p. 128)</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td>Radiologic Technology Professional Requirements (p. 818)</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>128</td>
</tr>
</tbody>
</table>

Biomedical Science Requirements

Students pursuing the Biomedical Sciences: Radiologic Technology submajor complete the freshman and sophomore years on campus. Students accepted into the professional education curriculum complete the junior and senior years at either the on-campus UWM radiography program or off campus through external radiography programs offered at Froedtert Hospital in Milwaukee, UW Hospital & Clinics in Madison, Wheaton Franciscan All Saints in Racine, and Wheaton Franciscan St. Joseph in Milwaukee. Students are responsible for any relocation and all living expenses during clinical education.

Entry into professional training is competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER) (p. 33);
2. Completion of all required courses and electives (62 credits) in the freshman and sophomore semesters with a cumulative GPA of 2.5;
3. Successful completion of the professional education application process to include an interview with the UWM radiography program and on-site interviews with the affiliated radiography programs;
4. Successful completion of a background check, health physical, and drug screen prior to the beginning of the professional curriculum, and maintenance of health insurance and CPR certification for the duration of the professional curriculum;
5. Students are required to earn a grade of C or better in the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 110</td>
<td>Physics for the Health Professions</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
<td>5</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
<td>1</td>
</tr>
<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
<td>1</td>
</tr>
<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
<td>1</td>
</tr>
<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
<td>1</td>
</tr>
</tbody>
</table>

6. Completion of a job-shadowing experience in an imaging department with a Radiologic Technology professional prior to applying for placement into the professional education component is required; and
7. Completion of a CNA (Certified Nursing Assistant) course is highly recommended, but not required. View a list of WI nurse aide

Additional information is available from the Office of Student Affairs, (414) 229-2758.

Admission into the professional curriculum is competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional education curriculum, students must adhere to all policies and procedures of the program they are attending. Once accepted into the professional education curriculum students will be provided with a copy of the program’s policies and procedures.

<table>
<thead>
<tr>
<th>Code</th>
<th>Pre-Professional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication (OWC) Competency Part A &amp; B</td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy (QL) Competency Part A and B</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Competency</td>
</tr>
<tr>
<td></td>
<td>Arts</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
</tr>
</tbody>
</table>

**Major Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
</tr>
<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
</tr>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
</tr>
<tr>
<td>HS 250</td>
<td>Allied Health Information Methods</td>
</tr>
<tr>
<td>HS 251</td>
<td>Health Documentation</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>Survey of Biochemistry</td>
</tr>
<tr>
<td>DMI 101</td>
<td>Introduction to Medical Imaging</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td>PHYSICS 110</td>
<td>Physics for the Health Professions</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
</tr>
<tr>
<td>BMS 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective (SS/CD)</td>
</tr>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
</tr>
<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
</tr>
<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
</tr>
<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing</td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
</tr>
</tbody>
</table>

**Pre-Professional Training Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
</tr>
<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
</tr>
<tr>
<td></td>
<td>Credits</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>CHEM 103</td>
<td>Survey of Biochemistry</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
</tr>
<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
</tr>
<tr>
<td></td>
<td>Credits</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>15</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Year 2</td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>PHYSICS 110</td>
<td>Physics for the Health Professions</td>
</tr>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
</tr>
<tr>
<td>HS 250</td>
<td>Allied Health Information Methods</td>
</tr>
<tr>
<td>HS 251</td>
<td>Health Documentation</td>
</tr>
<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
</tr>
<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
</tr>
<tr>
<td>DMI 306</td>
<td>Imaging Procedures I</td>
</tr>
<tr>
<td>DMI 307</td>
<td>Seminar in Radiography I</td>
</tr>
</tbody>
</table>
### Professional Training Curriculum Course List:

*(Curriculum course list and sequence below applies to the UWM Radiologic Technology program. Curriculum course list and sequence for affiliated Radiologic Technology programs will be provided to student upon advancement to major.)*

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>BMS 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GER Electives (Humanities)</td>
<td></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing</td>
<td>3</td>
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**Total Credits:** 16

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>DMI 306</td>
<td>Imaging Procedures I</td>
<td>5</td>
</tr>
<tr>
<td>DMI 350</td>
<td>Introduction to Radiologic Science and Healthcare</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DMI 351</td>
<td>Radiation Protection</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DMI 353</td>
<td>Principles of Imaging I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DMI 355</td>
<td>Radiography Clinical Education I</td>
<td>3</td>
<td></td>
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</tbody>
</table>

**Total Credits:** 14

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>DMI 307</td>
<td>Seminar in Radiography I</td>
<td>3</td>
</tr>
<tr>
<td>DMI 308</td>
<td>Imaging Procedures II</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>DMI 362</td>
<td>Principles of Imaging II</td>
<td>3</td>
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</tr>
<tr>
<td>DMI 364</td>
<td>Radiography Clinical Education II</td>
<td>3</td>
<td></td>
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</table>

**Total Credits:** 14

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>DMI 309</td>
<td>Imaging Procedures III</td>
<td>3</td>
</tr>
<tr>
<td>DMI 372</td>
<td>Radiographic Clinical Education III</td>
<td>4</td>
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</tbody>
</table>

**Total Credits:** 7

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>DMI 470</td>
<td>Radiographic Physics I</td>
<td>2</td>
</tr>
<tr>
<td>DMI 471</td>
<td>Digital Imaging</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>DMI 473</td>
<td>Imaging Procedures IV</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DMI 474</td>
<td>Radiography Clinical Education IV</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits:** 13

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>DMI 360</td>
<td>Radiation Biology</td>
<td>2</td>
</tr>
<tr>
<td>DMI 401</td>
<td>Seminar in Radiography II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DMI 475</td>
<td>Radiographic Physics II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DMI 478</td>
<td>Radiologic Pathology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>DMI 479</td>
<td>Radiography Clinical Education V</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits:** 12

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>DMI 485</td>
<td>Professional Development in Radiography</td>
<td>2</td>
</tr>
<tr>
<td>DMI 486</td>
<td>Radiography Clinical Education VI</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits:** 6

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### Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

### Honors in the College of Health Sciences

#### Dean's Honor List

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

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

---

### Biomedical Sciences, MS

The Biomedical Sciences Department offers a program of graduate education providing an advanced level of study for students interested in biology as it relates to human health, medicine, and disease. Major emphasis in the program is placed on developing an understanding...
of the mechanisms involved in human diseases and providing broad-based training in both basic and applied biomedical sciences. In-depth training is offered in selected areas of emphasis, such as immunology, the pathogenesis of infectious diseases, toxicology, pharmacology, neurodegeneration, and cancer biology. The MS degree has two tracks.

1. **Thesis Track** requirements include a thesis based on hypothesis-driven research conducted by the student to enhance problem-solving abilities and the student's capacity to function more effectively in the biomedical field.

2. The **Non-Thesis Track** is designed for students who want to gain knowledge in the biomedical sciences by taking courses focused on human health and disease without a research component. This track may be suitable for a variety of students, including those who currently work in a laboratory setting and wish to obtain a higher degree and those requiring a degree beyond the bachelor's level to teach.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following requirements to be considered for admission:

1. The program primarily enrolls individuals with backgrounds in biomedical sciences or related fields who have completed a bachelor's degree at an accredited institution. For students entering without a degree in a related area, the faculty determines deficiencies to be overcome prior to admission. Applications will not be reviewed until all required materials are obtained by the program. All completed applications received prior to February 1 will receive consideration for enrollment beginning the following Summer term for the Non-Thesis Track or Fall semester for the Thesis Track. Completed applications received after February 1 may be considered if space is available in the program. Students may enroll on a full-time or a part-time basis.

2. Applicants may be admitted to regular status if their grade point average is the equivalent of 2.75 or above (scale of 4.0). Averages below 2.75 may be considered for admission on a probationary basis, in which case particular attention is given to the last 60 hours completed in the undergraduate program, with special emphasis on performance in biomedical science-related courses. Probationary status is removed upon successful completion of the first eight graduate credits with a grade point average of 3.0 or above.

3. Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores on the General Test are required.

4. Three letters of reference, preferably from academic and/or research sources or supervisors, must be provided.

5. The applicant must provide a statement of not more than 1,000 words providing career objectives and reasons for seeking a degree in the UWM Biomedical Sciences Graduate Program.

6. Students must identify, at the time of applying, whether they seek enrollment in the Thesis Track or Non-Thesis Track. Students wishing to change tracks after admission must receive approval of the program.

**Credits and Courses**

The minimum degree requirement is 32 graduate credits.

**Thesis Track**

Nine credits of core curricular requirements are required, and a minimum of 8 credits in research (BMS 799) must be taken. Of the remaining 15 credits required for the degree, a minimum of 9 credits must be taken as sub-specialty courses offered by the program. No more than 3 credits of U/G courses at the 400 level and 3 credits of U/G courses at the 500 level, not including BMS 590, may be applied toward completion of the Thesis Track.

**Non-Thesis Track**

Two credits in advanced independent study (BMS 999) must be taken in the final term. Of the remaining 30 credits required for the degree, a minimum of 21 credits must be taken at the 500-level and higher, for graduate credit, within the program. The remaining credits are taken as elective courses at the graduate level. These elective courses also may be within the BMS program, or they may be taken outside of the program, in consultation with the major professor.

**Program Requirements**

**Major Professor as Advisor**

For both tracks, the student must have a major professor to advise and supervise the student's studies.

**Thesis (Thesis Track)/Capstone (Non-Thesis Track)**

Students enrolled in the Thesis Track must write an acceptable thesis based on original research and pass a final oral examination in defense of the thesis under the supervision of a major professor. Students in the Non-Thesis Track must pass a comprehensive examination based on their coursework or complete a project based on a literature review. These are administered and evaluated by the program's faculty and staff.

**Time Limit**

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

**Blood Banking/Immunohematology, Undergraduate Certificate**

The Certificate in Blood Banking trains students to meet the critical need for medical laboratory scientists in the workforce that make sure donated blood is safe for use in blood transfusions and other procedures.

**Requirements**

Successful completion of the undergraduate certificate in Blood Banking/Immunohematology allows the individual to sit for the American Society of Clinical Pathology Board of Certification (ASCP-BOC) Technologist/Scientist in Blood Bank national certification exam and be employable in a medical laboratory or blood center. This curriculum meets entry level practitioner competency as outlined by the American Society for Clinical Laboratory Science.

Most of the required courses are delivered in face-to-face format.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 427</td>
<td>Clinical Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 428</td>
<td>Clinical Immunology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BMS 529</td>
<td>Introduction to Immunohematology</td>
<td>3</td>
</tr>
</tbody>
</table>
the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements
To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

Death Investigation, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility
Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements
To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610 or HCA 212</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 24

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
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</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1</td>
</tr>
<tr>
<td>ANTHRO 404</td>
<td>Seminar in Human Evolutionary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>
Forensic Science, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403 or ANTHRO 404</td>
<td>The Human Skeleton or Seminar in Human Evolutionary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610 or HCA 212</td>
<td>Pharmacology or Drugs Used and Abused</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>BMS 560 &amp; BMS 561</td>
<td>Molecular and Genetic Diagnostics</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21-22

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
</tbody>
</table>

Forensic Toxicology, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be
admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

**Requirements**

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403 or ANTHRO 404</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Seminar in Human Evolutionary Physiology</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar: (with forensic subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>17-20</td>
</tr>
</tbody>
</table>

Although flexibility is built into this certificate program, students will be expected to have basic knowledge of microbiology and genetics and at least one advanced laboratory course (500 level or above) to qualify for the Molecular Diagnostics Certificate.

Students interested in pursuing this Certificate should contact the Office of Students Affairs at (414) 229-2758. The Office is located in NWQB room 6425.
Nutritional Sciences, BS (Department of Biomedical Sciences)

The Nutritional Sciences Program is a 120-credit interdisciplinary undergraduate major administered jointly by the Biomedical Sciences and Kinesiology Departments in the College of Health Sciences. The Nutritional Sciences program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Courses</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Foundation Courses (includes advanced General Education Requirements)</td>
<td>42-55</td>
</tr>
<tr>
<td></td>
<td>Nutrition Core</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>Advanced Nutrition Core</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Additional Requirements</td>
<td>16-29</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>120</td>
</tr>
</tbody>
</table>

Admission and Prerequisites

All students are eligible to pursue general education requirements and foundations courses associated with the curriculum as long as they meet the necessary prerequisites for each course. The UWM General Education Requirements (p. 33) are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Competency Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral and Written Communication (OWC) Part A &amp; B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy (QL) Part A &amp; B</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Distribution Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Required courses in the curriculum satisfy these General Education Requirements

Students are considered "Nutritional Sciences-Intended" until they have completed their General Education Requirements, Foundations courses and the Nutrition Core. To be eligible for admission to the major and enrollment in the advanced core nutrition courses, students must have a UWM cumulative grade point average (GPA) of 2.50 or higher, and the following prerequisite courses must be completed with a minimum grade of C:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foundations (credit totals will vary by Chemistry sequence chosen)</td>
<td>42-55</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 101</td>
<td>Introduction to Sociology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td></td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Chemistry Sequence (choose one):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chemistry sequence culminating in CHEM 103 (42 total Foundations credits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemistry sequence with 3 credits of Organic Chemistry and culminating in CHEM 501 (50 total Foundations credits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemistry sequence with 8 credits of Organic Chemistry and culminating in CHEM 501 (55 Foundations credits)</td>
<td></td>
</tr>
</tbody>
</table>

Nutrition Core (minimum GPA of 2.75 is required in this category for admission) | 13 |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 101</td>
<td>Introduction to the Nutrition Profession</td>
<td>1</td>
</tr>
<tr>
<td>NUTR 110</td>
<td>Introduction to Food Principles &amp; Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 235</td>
<td>Introduction to Nutrition for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 240</td>
<td>Nutrition for Exercise and Wellness</td>
<td>3</td>
</tr>
</tbody>
</table>

No more than four of the Foundations courses listed above may repeated.

Advancement to the Major

The application to the major is made available online on the program website during the months of September and February. Applications are due October 1st for spring admission and March 1st for summer/fall admission. The application may be submitted while courses above are in progress as long as they will be completed prior to the effective admission term. Applicants are notified of admission status via email from the program director within four weeks of the application deadline.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Advanced Core (Minimum GPA of 2.75 is required in this category)</td>
<td>24</td>
</tr>
<tr>
<td>NUTR 210</td>
<td>Food Science</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 245</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 350</td>
<td>Nutrition Communication and Education</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 355</td>
<td>Modifying Nutrition and Eating Behavior</td>
<td>2</td>
</tr>
<tr>
<td>NUTR 430</td>
<td>Advanced Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 435</td>
<td>Nutrition and Disease</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 470</td>
<td>Nutrition Internship/Project</td>
<td>4</td>
</tr>
<tr>
<td>NUTR or KIN course 500 level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Electives (9 credits must be at the 300 level or above) | 16-29 |

Students with Chemistry sequence culminating in CHEM 103 must complete 29 elective credits
Graduation Requirements
Once admitted to the program, students must earn a minimum GPA of 2.75 in the all advanced core nutrition courses, and no more than three of the Core and Advanced Core courses may be repeated. Students must complete a minimum of 120 credits with a minimum cumulative GPA of 2.5 to be eligible for graduation.

Honors in the Major
Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Nutritional Sciences, Minor (Department of Biomedical Sciences)
The Minor in Nutritional Sciences provides students the opportunity to study food and nutrients, their physiological functions, normal nutritional requirements, and the myriad of influences on food choice and eating behavior throughout the life cycle. The required science foundation courses provide the necessary background of chemistry and biological sciences to understand the physiological basis of nutrition, as a multidisciplinary science with relevance to health.

Upon completion of the Minor in Nutritional Sciences, students will be able to:

- Describe the relationship between food and nutrients in human health and well-being;
- Discuss the function, physiology, dietary sources, and symptoms and consequences of deficiency and toxicity for macro- and micronutrients;
- Apply nutrition principles to the human life cycle: nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth and development, maturation, and aging;
- Examine the multiple levels of influence (i.e., intrapersonal, interpersonal, institutional/organizational, community, political, and cultural) that shape food choice and eating behavior;
- Apply scientific principles of basic food chemistry in examining food’s physical aspects and preparation; and
- Apply biological and biochemical principles to the understanding of the human digestion and metabolism of macro- and micronutrients.

Admission and Requirements
Students may declare their intent to pursue the Nutritional Sciences Minor on the program’s website. Students must satisfy the following requirements to be eligible to declare the minor:

- 2.5 Cumulative GPA
- Minimum grade of C in the following 15 credits of Core Nutrition Courses (or In Progress):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 110</td>
<td>Introduction to Food Principles &amp; Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 235</td>
<td>Introduction to Nutrition for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>or BMS 232</td>
<td>Introduction to Nutrition</td>
<td></td>
</tr>
<tr>
<td>NUTR 240</td>
<td>Nutrition for Exercise and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 245</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Once the Admission requirements listed above are met (15 credits), students may progress and choose the 6 credits of Advanced Coursework that best meets their goals for completion of the Minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 6 credits from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>NUTR 355</td>
<td>Modifying Nutrition and Eating Behavior</td>
<td></td>
</tr>
<tr>
<td>NUTR 210</td>
<td>Food Science</td>
<td></td>
</tr>
<tr>
<td>NUTR 350</td>
<td>Nutrition Communication and Education</td>
<td></td>
</tr>
<tr>
<td>NUTR 430</td>
<td>Advanced Nutrition and Metabolism</td>
<td></td>
</tr>
<tr>
<td>NUTR 435</td>
<td>Nutrition and Disease</td>
<td></td>
</tr>
<tr>
<td>NUTR 550</td>
<td>Sports Nutrition</td>
<td></td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
<td></td>
</tr>
<tr>
<td>KIN 574</td>
<td>Obesity and Weight Management</td>
<td></td>
</tr>
</tbody>
</table>

1 This list of courses may be modified by the Nutritional Sciences Program Committee as additional courses are developed.
To be awarded the Minor in Nutritional Sciences, students will need to maintain a GPA of 2.50 with no grade lower than a C in the 21 credits of coursework.

Students concurrently enrolled in a bachelor’s degree program successfully completing the program requirements will be awarded the Minor in Nutritional Sciences at the time of graduation.

Academic advisors within the College of Health Sciences Office of Student Affairs will assist students enrolled in the program with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at (414) 229-2758.
COMMUNICATION SCIENCES AND DISORDERS

The Department of Communication Sciences and Disorders offers a Bachelor of Science degree, which provides the pre-professional foundation for graduate study. The student who plans to become a professional speech-language pathologist or audiologist will receive preparation in human communication sciences and disorders as well as a broad educational experience in the liberal arts and sciences.

A career as a speech-language pathologist requires a master’s degree. The Department offers a graduate program that is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association (ASHA) in Speech-Language Pathology. The Wisconsin Department of Public Instruction also has approved the undergraduate/graduate program in Communication Sciences and Disorders. A career as an audiologist requires a doctoral degree (AuD or Doctor of Audiology). In Wisconsin, an AuD consortial program is offered by UW-Madison and UW-Stevens Point.

 Programs

- Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Communication Sciences and Disorders) (p. 833)
- Communication Sciences and Disorders, BS (p. 834)
- Communication Sciences and Disorders, MS (p. 837)

Undergraduate Academic Advising

Advising for all undergraduate students is provided by the Office of Student Affairs, Northwest Quadrant Building B, Room 6451, and students are strongly encouraged to confer with that advisor at least once each semester. Students are also encouraged to meet with a Department of Communication Sciences and Disorders faculty member to discuss the requirements and challenges of a career as a speech-language pathologist or audiologist. Seniors should meet with their advisor to review their final year of study and discuss opportunities for graduate study.

Communication Sciences and Disorders Courses

COMSDIS 210 Survey of Communication Disorders
3 cr. Undergraduate.
A broad overview of speech, language, and hearing disorders. Normal development, adult functions and cultural differences are explored, as well as general approaches to rehabilitation.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMSDIS 220 Anatomy and Physiology of Speech, Hearing, and Language Mechanisms
4 cr. Undergraduate.
Structures and functions involved in normal speech, hearing, and language.
Prerequisites: Bio Sci 202 (P) or cons instr.
Current Offerings: http://uwm.edu/schedule

COMSDIS 230 Introduction to Phonetics
4 cr. Undergraduate.
Descriptive study of the production and perception of English speech sounds; broad phonetic transcription; introduction to physiological, acoustic, and clinical phonetics. 3 hr Lec, 1 hr Lab/Dis.
Prerequisites: none.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

COMSDIS 240 Normal Speech and Language Development
3 cr. Undergraduate.
Intensive study of children’s speech and language acquisition and research techniques for investigating children’s speech and language behavior. Interrelationship with other development areas also discussed.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

COMSDIS 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual’s cultural identity.
Prerequisites: soph st or cons instr.
Course Rules: BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

COMSDIS 250 Interprofessional Communication in the Health Sciences
3 cr. Undergraduate.
Introduction to best-practices in interprofessional communication within the Health Sciences; emphasis on patient-provider interactions, regulations, health literacy, and interprofessional communication.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMSDIS 320 Clinical Process I: Articulation and Phonology Disorders
3 cr. Undergraduate.
Introduction to the clinical process and its application to the assessment and intervention of articulation and phonology disorders in children.
Prerequisites: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
COMSDIS 351 Clinical Process II: Child Language Disorders
3 cr. Undergraduate.
The clinical process and its application to the assessment and intervention of language disorders in children.
Prerequisites: jr st; admis to major; ComSDis 350(NP).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMSDIS 380 Bases of Hearing Science
3 cr. Undergraduate.
Consideration of fundamental physical and psychophysical concepts in hearing science and advanced topics in auditory physiology promoting a basic understanding of hearing and hearing measurement.
Prerequisites: ComSDis 220(NP) or cons instr.
Current Offerings: http://uwm.edu/schedule

COMSDIS 450 Survey of Adult Neurogenic Language and Speech Disorders
3 cr. Undergraduate.
Overview of the basic requirements for fluent speech and voice production. Also includes an introduction to the disorders of fluency and voice.
Prerequisites: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP) or cons instr.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

COMSDIS 460 Bases of Fluency and Voice Disorders
3 cr. Undergraduate.
Overview of the basic requirements for fluent speech and voice production. Also includes an introduction to the disorders of fluency and voice.
Prerequisites: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMSDIS 470 Introduction to Audiology
3 cr. Undergraduate.
Overview of clinical hearing assessment including principles of assessment, instrumentation and calibration, basic audiometry, interpretation of audiometric results, and hearing disorders. Participation in laboratories required.
Prerequisites: jr st; ComSDis 220(NP), 380(NP) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMSDIS 480 Speech Science
3 cr. Undergraduate.
Study of anatomic, physiologic, acoustic and perceptual parameters involved in speech production and perception; exposure to instrumentation for clinical application/research.
Prerequisites: jr st; admis to major; ComSDis 380 or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMSDIS 490 Audiologic (Re)habilitation
3 cr. Undergraduate.
Study of the fundamentals of (re)habilitative audiology. Includes study of current comprehensive audiological (re)habilitative approaches with pediatric through geriatric populations.
Prerequisites: jr st; ComSDis 470(P).
Current Offerings: http://uwm.edu/schedule

COMSDIS 500 Clinical Practice in Speech-Language Pathology
3 cr. Undergraduate.
Initial supervised practicum experience with articulation, phonology, and/or child language disorders.
Prerequisites: jr st; admis to major; ComSDis 351(P); cons instr.
Course Rules: May not be retaken for cr.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

COMSDIS 520 Counseling in Communication Disorders
3 cr. Undergraduate/Graduate.
Current theories in counseling and guidance, procedures designed specifically for use with the communicatively impaired. Opportunity for application of knowledge will be provided.
Prerequisites: jr st; admis to major or cons instr.
Current Offerings: http://uwm.edu/schedule

COMSDIS 579 Special Topics in Communication Sciences and Disorders: 1-3 cr. Undergraduate/Graduate.
Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Fall 2015, Spring 2011, Fall 2010, Spring 2010.
Current Offerings: http://uwm.edu/schedule

COMSDIS 580 Communication Problems of the Older Adult
3 cr. Undergraduate/Graduate.
Study of the impairments to the communicative process caused by physiological, environmental, and social psychological changes which come with aging.
Prerequisites: sr st; ComSDis 460 or cons instr.
Current Offerings: http://uwm.edu/schedule

COMSDIS 620 Craniofacial Disorders
2 cr. Undergraduate/Graduate.
Genetic, embryological, anatomical and physiological aspects of craniofacial disorders, including cleft lip and palate; associated communicative disorders; diagnostic and therapeutic approaches for related speech-language problems.
Prerequisites: ComSDis 350(P), 351(P), 480(P); cons instr.
Current Offerings: http://uwm.edu/schedule

COMSDIS 630 Communication Disorders in Multicultural Populations
2 cr. Undergraduate/Graduate.
Application of theoretical models and research perspectives to the assessment and treatment of communication disorders in children from multicultural populations.
Prerequisites: sr st; cons instr.
Current Offerings: http://uwm.edu/schedule
COMSDIS 660 School-Age Language  
2 cr. Undergraduate/Graduate.  
Language disorders in older children and adolescents; application of developmental theory to assessment and intervention.  
Prerequisites: sr st; cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 661 The Role of the Speech-language Pathologist in Literacy  
2 cr. Undergraduate/Graduate.  
Language theory related to reading and writing disorders. Speech-language pathologist's role in assessment and intervention.  
Prerequisites: sr st; cons instr.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 670 Advanced Procedures in Audiology  
3 cr. Undergraduate/Graduate.  
Masking, speech audiometry, acoustic immittance testing, differential diagnosis, audiological screening design, development and implementation, special pediatric and geriatric concerns; audiologic counseling and hearing aid orientation.  
Prerequisites: sr st; ComSDis 470(P); cons instr.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 688 Evaluation and Diagnosis in Speech-Language Pathology  
2 cr. Undergraduate/Graduate.  
The diagnostic process in speech-language assessment: case histories and interviewing, formal and informal assessment, interpretation of results, and report writing.  
Prerequisites: jr st; ComSDis 351(P); or cons instr.  
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 690 Cognitive Communication Disorders in Adults  
2 cr. Undergraduate/Graduate.  
Prerequisites: sr st, ComSDis 460, and cons instr; or grad st.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 699 Advanced Independent Study  
1-3 cr. Undergraduate.  
Individual program of supervised study.  
Prerequisites: sr st; cons instr & faculty advisor; completion of advanced independent study form.  
Course Rules: May be retaken to 6 cr max.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 701 Research Design and Methods in Communication Sciences and Disorders  
3 cr. Graduate.  
Introduction to strategy, design, and methodology in quantitative research; includes considerations in evaluating and understanding components of research articles, and integrating research into clinical practice.  
Prerequisites: grad st; cons instr.  
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 702 Clinical Phonology and Articulation  
2 cr. Graduate.  
Prerequisites: grad st; cons instr.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 703 Voice Disorders  
2 cr. Graduate.  
Diagnosis and treatment of hyperfunctional disorders; psychogenic voice disorders; organic diseases, trauma, and congenital disorders of the larynx; resonance disorders; and alaryngeal speech.  
Prerequisites: grad st; cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule
COMSDIS 704 Speech Fluency and Stuttering  
3 cr. Graduate.  
Theory and research related to the nature and treatment of stuttering.  
Discussion of factors important to the clinical management of fluency in children and adults.  
Prerequisites: grad st; cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 705 Aphasia in Adults  
2 cr. Graduate.  
Nature of aphasia and related communication disorders. Study of pertinent diagnostic and prognostic techniques and therapeutic procedures.  
Prerequisites: grad st; cons instr.  
Last Taught: Fall 2011, Fall 2010, Fall 2009, Fall 2008.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 706 Language Assessment and Intervention: Birth to 5 years  
2 cr. Graduate.  
Application of various theoretical models and research perspectives to the assessment and treatment of children with language impairments.  
Prerequisites: grad st; cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 709 Evaluation and Management of Swallowing Disorders  
3 cr. Graduate.  
Study of normal and abnormal swallowing across the lifespan, with emphasis on etiologies, clinical and instrumental evaluation techniques, and management.  
Prerequisites: grad st; ComSDis 712(P); cons instr.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 710 Motor Speech Disorders  
3 cr. Graduate.  
Basic neurological substrates of the dysarthrias and apraxia, differential diagnosis and treatment of acquired and developmental communication disorders associated with apraxia and dysarthria.  
Prerequisites: grad st; ComSDis 703(P) & 712(P).  
Current Offerings: http://uwm.edu/schedule

COMSDIS 711 Applied Speech Science  
3 cr. Graduate.  
Advanced study of physiological, acoustical, and perceptual perspectives of normal and abnormal speech production mechanisms; laboratory experience with speech science instrumentation for research/clinical application.  
Prerequisites: grad st; cons instr.  
Course Rules: Counts as repeat of ComDis 801.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 712 Acquired Neurogenic Communication Disorders in Adults  
3 cr. Graduate.  
Nature of acquired neurogenic communication disorders, including aphasia, TBI, RHD and dementia. Study of pertinent diagnostic and prognostic techniques and therapeutic procedures.  
Prerequisites: grad st  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 713 Degenerative Cognitive Communication Disorders in Older Adults  
2 cr. Graduate.  
Nature of healthy cognitive aging and cognitive and communicative disorders of dementia. Study of pertinent diagnostic and prognostic techniques and therapeutic procedures.  
Prerequisites: grad st; cons instr.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 715 Assessment and Intervention in Augmentative and Alternative Communication  
3 cr. Graduate.  
Application of current research in augmentative and alternative communication (AAC) for assessment, prescription of AAC systems, and intervention planning for individuals with severe communication disorders.  
Prerequisites: grad st; cons instr.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 717 Special Populations in Communication Disorders  
2 cr. Graduate.  
Seminar reviewing the current literature on selected populations of individuals with communication disorders and the implications of this literature on clinical practice.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 720 Advanced Clinical Practice in Speech-Language Pathology  
1-3 cr. Graduate.  
Supervised clinical practice with different speech and language problems in children and adults.  
Prerequisites: grad st; cons instr  
Course Rules: Counts as a repeat of ComDis 902. Retakable as necessary to fulfill competency requirements.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 721 The Clinical Process  
1 cr. Graduate.  
Analysis of the clinical process with application to clients with different speech-language disorders.  
Prerequisites: grad st  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

COMSDIS 725 Speech/Language Services in Educational and Medical Environments  
2 cr. Graduate.  
Methods and professional issues related to the speech-language pathologist employed in the educational and medical environments.  
Prerequisites: grad st, ComSDis 709(C) or cons instr.  
Current Offerings: http://uwm.edu/schedule
COMSDIS 726 Speech-Language Pathology Externship in Medical Environments
4 cr. Graduate.
Supervised clinical experience in medical and rehabilitation settings.
Prerequisites: grad st; ComSDis 709(P); ComSDis 725(P); cons instr & grad advisor.
Course Rules: Counts as a repeat of ComSDis 903. May be repeated to 8 cr max.
Current Offerings: http://uwm.edu/schedule

COMSDIS 727 Speech-Language Pathology Externship in Educational Environments
4 cr. Graduate.
Supervised clinical experience in educational environments.
Prerequisites: grad st; ComSDis 660(P) or 706(P); ComSDis 725(P); cons instr & grad advisor.
Course Rules: Counts as repeat of ComSDis 905. May be repeated to 8 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMSDIS 728 Instrumentation Laboratory
1 cr. Graduate.
Hands-on experience with speech science instrumentation for analysis of voice, prosody, and resonance.
Prerequisites: grad st; ComSDis 703(C) or cons instr.
Course Rules: Counts as repeat of ComSDis 906.
Current Offerings: http://uwm.edu/schedule

COMSDIS 770 Clinical Practice in Audiologic Assessment
3 cr. Graduate.
Supervised clinical experience at Community Audiology Services, West Allis, WI. Activities include audiologic assessment and (re)habilitation with children and adults (adult emphasis).
Prerequisites: grad st; ComSDis 670(521); cons instr.
Course Rules: Counts as repeat of ComSDis 906.
Current Offerings: http://uwm.edu/schedule

COMSDIS 771 Clinical Practice in Audiologic (Re)Habilitation:
2-3 cr. Graduate.
Supervised experience in audiologic (re)habilitation with pediatric or adult clients at on-campus or community sites.
Prerequisites: grad st; ComSDis 670(521) & 706 (for pediatric placements); cons instr.
Course Rules: Counts as repeat of ComSDis 907. May be repeated to 4 cr max.
Current Offerings: http://uwm.edu/schedule

COMSDIS 784 Professional Portfolio Development I
1 cr. Graduate.
Students are guided through the second (working) review of their professional development portfolios.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMSDIS 785 Professional Portfolio Development II
1 cr. Graduate.
Students are guided through the final process of designing a professional development portfolio.
Prerequisites: grad st; ComSDis 784(P).
Current Offerings: http://uwm.edu/schedule

COMSDIS 790 Research and Thesis
1-6 cr. Graduate.
Independent research and writing under the supervision of a graduate faculty member.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

COMSDIS 791 Research Experience in Communication Sciences and Disorders
1 cr. Graduate.
Supervised research in communication sciences and disorders under the direction of an approved mentor.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMSDIS 799 Independent Studies
1-3 cr. Graduate.
Independent pursuit of a creative project designed by the student and supervised by a faculty or instructional academic staff member.
Prerequisites: grad st; cons grad advisor.
Current Offerings: http://uwm.edu/schedule

COMSDIS 802 Seminar in Applied Phonology:
1 cr. Graduate.
Specific topic and any additional prerequisites announced in the Timetable each time the course is offered. May be repeated w/chg in topic to 7 cr max.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

COMSDIS 804 Seminar in Stuttering and Fluency:
1 cr. Graduate.
Specific topic and any additional prerequisites announced in the Timetable each time the course is offered. May be repeated w/chg in topic to 7 cr max.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

COMSDIS 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule
Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Communication Sciences and Disorders)

The Certificate in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The Departments of Occupational Science and Technology and Communication Sciences Disorders in the College of Health Sciences, along with the Department of Exceptional Education in the School of Education, collaborate on the course offerings and management. The certificate follows a model of prerequisite disability and technology basic knowledge, survey of the fields, assessment, intervention and leadership. Completion of the certificate will help prepare the students to sit for State and National certification examinations as Assistive Technology Specialists, Rehabilitation Engineering Technologist and Low Vision Specialist.

Admission Requirements

Application

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application

• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.

• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).

• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission

Students interested in this certificate should contact one of the three sponsoring programs before enrolling in any certificate courses. Admission to the certificate requires evidence of a basic knowledge of disability and computer applications, and an undergraduate GPA of at least 2.75 or a graduate GPA of at least 3.0.

Credits and Courses

Generally, students in the health sciences and exceptional education will have sufficient coursework in disability related studies. Prerequisite evidence in disability related studies may be obtained at the undergraduate level. One of the following is recommended to meet the computer applications requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 730</td>
<td>Assistive and Instructional Technology for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 750</td>
<td>Computer Applications in Occupational Therapy Practice</td>
<td>3</td>
</tr>
</tbody>
</table>
The Certificate in Assistive Technology and Accessible Design requires completion of a minimum 15 credits as listed below. In special circumstances, the ATAD coordinator and advisory board may approve substitution of an equivalent Assessment or Intervention course relevant to assistive technology and adaptive design as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Introduction</strong></td>
<td><strong>3</strong></td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 620</td>
<td>Introduction to Assistive and Rehabilitation Technology (must be taken at graduate level)</td>
<td></td>
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<tr>
<td><strong>Assessment</strong></td>
<td><strong>3</strong></td>
<td></td>
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<tr>
<td>EXCEDUC 765</td>
<td>Assistive Technology Service Delivery in Schools</td>
<td></td>
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<tr>
<td>COMSDIS 715</td>
<td>Assessment and Intervention in Augmentative and Alternative Communication</td>
<td></td>
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<tr>
<td>OCCTHPY 770</td>
<td>Assessment in Assistive Technology and Accessible Design</td>
<td></td>
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<tr>
<td><strong>Intervention</strong></td>
<td><strong>3</strong></td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td></td>
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<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision &amp; Visual Impairment</td>
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<tr>
<td>OCCTHPY 596</td>
<td>Vision II: Practical Aspects of Visual Impairment &amp; Low Vision Intervention</td>
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<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
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<tr>
<td>OCCTHPY 999</td>
<td>Advanced Independent Study</td>
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<tr>
<td>EXCEDUC 735</td>
<td>Technology &amp; Instruction for Students with Disabilities</td>
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<tr>
<td>EXCEDUC/OCCTHPY 777</td>
<td>Fieldwork in Assistive Technology</td>
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<tr>
<td>EXCEDUC 799</td>
<td>Independent Reading</td>
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<tr>
<td>COMSDIS 717</td>
<td>Special Populations in Communication Disorders</td>
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<tr>
<td>COMSDIS 791</td>
<td>Research Experience in Communication Sciences and Disorders</td>
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</tr>
<tr>
<td>COMSDIS 799</td>
<td>Independent Studies</td>
<td></td>
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<tr>
<td><strong>Elective</strong></td>
<td><strong>3</strong></td>
<td></td>
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<tr>
<td>Select an additional 3 credits from either Assessment or Intervention list</td>
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<td></td>
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<tr>
<td><strong>Capstone</strong></td>
<td><strong>3</strong></td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 760</td>
<td>Assistive and Rehabilitation Technology</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

1 Alternate related graduate-level course can substitute if this course has been completed on an undergraduate level.

2 Any U/G course must be taken at graduate level.

**Certificate Requirements**

**Minimum Grade Requirement**

To be awarded the certificate, students must earn a minimum grade of B in the certificate courses (B- not allowed).

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

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

**Articulation with Degree Programs**

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

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

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

**Communication Sciences and Disorders, BS**

The Department of Communication Sciences and Disorders offers a Bachelor of Science degree, which provides the pre-professional foundation for graduate study. The student who plans to become a professional speech-language pathologist or audiologist will receive preparation in human communication sciences and disorders as well as a broad educational experience in the liberal arts and sciences.

**Requirements**

Students must achieve the following:

1. Satisfactory completion of 120 credits;
2. Satisfactory completion of the required courses in the Department of Communication Sciences and Disorders, and those required outside the department;
3. Satisfactory completion of the University General Education Requirements (p. 33);
4. A cumulative 2.5 GPA or better in all credits earned at UWM. Students should note that admission to graduate programs in speech-language pathology and audiology is highly competitive. To be competitive with other Graduate School applicants, it is recommended that students maintain a GPA greater than 3.5; and
5. Completion of the last 30 credits in residence at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HCA 203</td>
<td>Human Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 207</td>
<td>Health Science Writing</td>
<td></td>
</tr>
</tbody>
</table>

### Select one of the following: 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>ED PSY 624</td>
<td>Educational Statistical Methods I</td>
<td></td>
</tr>
</tbody>
</table>

### Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td></td>
</tr>
<tr>
<td>ED POL 500</td>
<td>Sociology and Policy of Urban Communities and Schools</td>
<td></td>
</tr>
<tr>
<td>ED POL 530</td>
<td>Urban Education: Foundations</td>
<td></td>
</tr>
<tr>
<td>ED POL 650</td>
<td>The Civil Rights Movement in Northern Cities</td>
<td></td>
</tr>
</tbody>
</table>

### Select one of the following: 2-3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 343</td>
<td>Teaching of Reading (ExcEduc sec)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 643</td>
<td>Balanced Literacy Instruction in the Elementary School</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 661</td>
<td>The Role of the Speech-language Pathologist in Literacy</td>
<td></td>
</tr>
</tbody>
</table>

### Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887</td>
<td></td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past</td>
<td></td>
</tr>
</tbody>
</table>

1 Satisfied through required courses in the program.
Admission to the Major

To be accepted as a communication sciences and disorders major you must have:

1. A cumulative GPA of 2.75 or better in at least the first 58 credits taken;
2. A GPA of 3.0 or better in COMSDIS 220, COMSDIS 230, and COMSDIS 240, earned the first time;
3. Completion of Oral and Written Communication - Part A competency;
4. Completion of Quantitative Literacy - Part A competency;
5. Completion of an application form (http://uwm.edu/healthsciences/wp-content/uploads/sites/129/2015/07/CSD-Application-Degree-Students.pdf) for admission to the major. Applications are available in the College of Health Sciences Office of Student Affairs, Northwest Quadrant Building B, Room 6451; and
6. Endorsement by the faculty of the student's written application.

Students will receive written notice of the admission decision. A meeting with your advisor to discuss the program of study is required immediately following admission to the major.

Appeal Procedures

Students who are refused admission to the major may appeal the decision by writing to the department chairperson and enumerating the reasons they believe their case is exceptional and merits additional consideration. If possible, the appeal should be accompanied by written support from one or more of the faculty, and should include documentation of any extenuating circumstances cited in support of the appeal. A committee composed of the entire faculty of the Department of Communication Sciences and Disorders will consider individual student appeals for admission to the major. Students are notified in writing of the faculty's decision concerning the appeal.

Individuals who have an educational background in Communication Sciences and Disorders have a variety of employment and career opportunities available to them upon completion of the Bachelor's Degree. For those interested in working with children and adults with disabilities, positions may be found in schools, agencies, health-care facilities, and government. The Communication Sciences and Disorders major also provides a good preparation for graduate and certification training in human service-related fields.

Examples of Jobs for Undergraduate Majors

- Care Coordinator for high-risk children and families
- Case Manager for individuals with developmental disabilities
- Job Coach
- Activity Assistant
- Life Skills Instructor
- Rehabilitation Technician (assists rehabilitation professionals in healthcare settings)
- Classroom Aide
- Special Ed Educational Assistant
- Autism Line Therapist
- In-home Behavioral Support Specialist
- Substitute Teacher

---

1 Electives should be used to meet general education requirements.
2 COMSDIS 220, COMSDIS 230, and COMSDIS 240 may not be repeated and must have a minimum cumulative GPA of 3.00 for admission to the major.
3 These courses meet a subset of the requirements for Wisconsin Department of Public Instruction for School Certification in Speech-Language Pathology.
4 COMSDIS 688: Evaluation and Diagnosis in SLP is highly recommended; it will count toward 2 elective credits.
Jobs Requiring Additional Education
(graduate degree or post-baccalaureate certification)

- Speech-Language Pathologist
- Audiologist
- Social Worker
- Occupational Therapist
- Manager, Day Services Program
- Special Education Teacher
- Reading Specialist
- Vocational Rehabilitation Counselor
- Manager, Autism Therapy Agency

Honors in the Major
Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Undergraduate Program Coordinator
Enderis Hall
Phone: use dept phone number

Communication Sciences and Disorders, MS
The Department of Communication Sciences and Disorders offers a program of graduate study which prepares students for careers as speech-language pathologists in public schools, hospitals, rehabilitation centers, nursing homes, and university training programs. The program typically takes 2 calendar years to complete. Students usually prepare for service delivery in both school and healthcare clinical settings to maximize career flexibility. Occasionally, students may choose to focus career preparation on just one type of setting.

Departmental laboratory and instructional facilities include a speech and language clinic, a hearing evaluation center, an instructional communication sciences laboratory, and faculty research laboratories. Research and instructional laboratories contain state-of-the-art technology, a variety of acoustic and physiological measurement systems including a swallow station, and augmentative and alternative communication (AAC) devices. Students typically participate in at least three semesters of on-campus clinic. Student participation in a research experience is required.

Following a minimum of two successful practicum experiences in the on-campus clinics, students are eligible for off-campus externships in medical, rehabilitation, school, and birth-to-three sites. A successful practicum experience is one in which a student earns a grade of B or better. Students placed in these facilities are required to pass a criminal background check prior to the externship placement, in accordance with Wisconsin State Statutes, Chapters 48 and 50.

The master’s degree program in speech-language pathology (M.S. in Communication Sciences and Disorders) at the University of Wisconsin-Milwaukee is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (http://asha.org/academic/accreditation) of the American Speech-Language-Hearing Association, 2200 Research Boulevard, Rockville, MD 20850-3289, 301-296-5700.

The Wisconsin Department of Public Instruction (DPI) has also approved the undergraduate/graduate program in communication sciences and disorders. Students in the graduate program are advised individually to select academic coursework and clinical practica so that they may fulfill the standards of the credentials of their choice, including the state professional license issued by the Wisconsin Department of Regulation and Licensing (DRL), a state public schools license issued by the Wisconsin Department of Public Instruction (DPI), and the national professional Certificate of Clinical Competence in Speech-Language Pathology (CCC) issued by the American Speech-Language-Hearing Association (ASHA).

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:
• Undergraduate major in communication sciences and disorders.
• A cumulative overall grade point average of 3.0 or better (scale of 4.0).
• Minimum grade point average of 3.0 or better in the undergraduate major courses.
• Submission of three letters of recommendation from persons familiar with applicant’s academic qualifications and achievements.
• Submission of Graduate Record Examination (GRE) scores.
• Students must apply to the program using the Communication Sciences and Disorders Centralized Application Service (CSDCAS). See the CSD FAQ Website for more information.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Students preparing for professional certification in speech-language pathology must also have transcript credit (which could include coursework, advanced placement, CLEP, or examination of equivalency) for each of the following areas: biological sciences, physical sciences, social/behavioral sciences, and mathematics.

Credits and Courses
Minimum degree requirement is 49 credits, although total degree credits are typically around 53.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 670</td>
<td>Advanced Procedures in Audiology</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 701</td>
<td>Research Design and Methods in Communication Sciences and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 702</td>
<td>Clinical Phonology and Articulation</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 703</td>
<td>Voice Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 704</td>
<td>Speech Fluency and Stuttering</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 706</td>
<td>Language Assessment and Intervention: Birth to 5 years</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 707</td>
<td>Evaluation and Management of Swallowing Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 710</td>
<td>Motor Speech Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 712</td>
<td>Acquired Neurogenic Communication Disorders in Adults</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 715</td>
<td>Assessment and Intervention in Augmentative and Alternative Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 721</td>
<td>The Clinical Process</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 725</td>
<td>Speech/Language Services in Educational and Medical Environments</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 784</td>
<td>Professional Portfolio Development I</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 785</td>
<td>Professional Portfolio Development II</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 790</td>
<td>Research and Thesis</td>
<td>3</td>
</tr>
<tr>
<td>or COMSDIS 791</td>
<td>Research Experience in Communication Sciences and Disorders</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 2 credits of electives (see below)
Total Credits 35

The remaining credits will be taken in required clinical practica, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 720</td>
<td>Advanced Clinical Practice in Speech-Language Pathology</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 771</td>
<td>Clinical Practice in Audiologic (Re)Habilitation</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 726</td>
<td>Speech-Language Pathology Externship in Medical Environments</td>
<td>4</td>
</tr>
<tr>
<td>COMSDIS 727</td>
<td>Speech-Language Pathology Externship in Educational Environments</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 579</td>
<td>Special Topics in Communication Sciences and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 620</td>
<td>Craniofacial Disorders</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 630</td>
<td>Communication Disorders in Multicultural Populations</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 640</td>
<td>Clinical and Research Instrumentation in Communication Sciences &amp; Disorders</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 661</td>
<td>The Role of the Speech-language Pathologist in Literacy</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 688</td>
<td>Evaluation and Diagnosis in Speech-Language Pathology</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 706</td>
<td>Language Assessment and Intervention: Birth to 5 years</td>
<td>2</td>
</tr>
<tr>
<td>or COMSDIS 660</td>
<td>School-Age Language</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 713</td>
<td>Degenerative Cognitive Communication Disorders in Older Adults</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 717</td>
<td>Special Populations in Communication Disorders</td>
<td>2</td>
</tr>
<tr>
<td>COMSDIS 790</td>
<td>Research and Thesis (credits beyond 1)</td>
<td>1</td>
</tr>
<tr>
<td>COMSDIS 799</td>
<td>Independent Studies</td>
<td>1</td>
</tr>
<tr>
<td>COMSDIS 802</td>
<td>Seminar in Applied Phonology</td>
<td>1</td>
</tr>
<tr>
<td>COMSDIS 804</td>
<td>Seminar in Stuttering and Fluency</td>
<td>1</td>
</tr>
</tbody>
</table>

Whichever was not taken to fulfill a core requirement.

The student, in consultation with the major advisor, plans the appropriate practicum courses for on-campus clinics and off-campus externships to meet ASHA certification, DPI and Wisconsin licensure requirements. Only clinical clock hours for practicum experiences in which the student...
has earned a grade of B or better will apply toward degree, certification, or licensure requirements.

Students who have fulfilled the program's student learning outcomes in U/G courses (for example, COMSDIS 670 or COMSDIS 688) will be waived from taking these courses as part of their graduate program. However, students must still take a minimum of 38 graduate credits in academic coursework, and must have a minimum of 49 total graduate credits to complete degree requirements.

**Thesis**
Optional. A student may earn up to 6 credits for a thesis (COMSDIS 790) if this option is selected. One of these credits will apply toward the core curriculum, two credits may apply toward the elective credit requirement, and the rest may apply toward the total of 49 credits required for the degree.

**Research Experience**
Students who do not choose the thesis option are required to engage in a one-credit research experience (COMSDIS 791). This experience may involve (but is not limited to) a small-scale original study, a project related to the on-going research of a faculty member, a clinical case study, or a literature review. Students may work individually or in groups. The final product can be either a research paper or a poster of the research findings, presented at a departmental research colloquium.

**Program Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the graduate studies as specified in Graduate School regulations. Entering students are assigned advisors according to faculty advising loads.

**Knowledge and Skills Acquisition (KASA) Assessment**
All students will be responsible for completion of the Knowledge and Skills Acquisition (KASA) assessment, which assesses student attainment of learning outcomes in a variety of content areas. Students who are judged by program faculty and staff to be deficient in one or more content areas will be required to take additional coursework or clinical practica until their deficiencies have been satisfied.

Completion of the degree program affords the necessary opportunities to meet licensure and certification requirements. However, it is still the student’s responsibility to ensure that his or her individual course and practicum choices are consistent with the credentials he or she seeks to obtain, and that all competencies and standards have been met.

**Time Limit**
The student must complete all degree requirements within seven years of initial enrollment.
FOOD STUDIES, UNDERGRADUATE CERTIFICATE (COLLEGE OF HEALTH SCIENCES)

Lori Klos, Assistant Professor, Kinesiology, Co-Coordinator, END 455, (414) 229-3162, lklos@uwm.edu
Larry Kuiper, Associate Professor, French, Co-Coordinator, CRT 782, (414) 229-5966, kuiper@uwm.edu

The College of Letters and Science cooperates with the College of Health Sciences to offer an undergraduate certificate in Food Studies. The certificate is designed to help students become proficient at:

1. Investigating and analyzing food systems and practices in a variety of cultural, social, and geographical settings;
2. Presenting their critical reflections on the forces that surround these systems and practices in both written and oral form;
3. Using information (statistical, textual, first-hand accounts, etc.) as a basis for formulating plans for personally and socially responsible action pertinent to local and global food and health; and
4. Becoming active in the community by participating in activities that develop responsible and sustainable practices, promote cross-cultural understanding, and help people in disparate professions or academic fields understand the relationships the study of food has with their own specializations.

The program is administered by an advisory committee composed of faculty members from both the College of Letters and Science and the College of Health Sciences.

The interdisciplinary undergraduate certificate program in Food Studies explores the many facets of food, from the field and sea to the table, through the lenses of the arts, humanities, and natural and social sciences. Combining courses in the Liberal Arts and Health Sciences, it addresses the production and consumption of food and its symbolic and ideological meanings, across cultures and over time, from the beginning of agriculture to globalization.

Eligibility

The Certificate in Food Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular University admission requirements. The Certificate is awarded jointly by the College of Health Sciences and the College of Letters and Science.

Students concurrently enrolled in a degree program who successfully complete the certificate program requirements will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon completion of the program requirements. Graduate students are eligible to pursue the Food Studies certificate concurrently with their graduate studies, and they will be awarded the certificate upon completion of the program requirements.

Requirements

To earn the certificate, students must complete 18 credits in approved Food Studies courses, with a minimum grade point average of 2.500, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOODBEV 101</td>
<td>Introduction to Food Studies (with a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select at least 12 credits selected from the approved courses list, including one course each in the humanities and the social sciences</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select at least one course in natural or health sciences, nursing, or engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>FOODBEV 699</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

A senior research or capstone course offered by another program and approved as a Food Studies content course

Total Credits: 21

Of the 18 required credits, at least 9 credits must be taken at the advanced level (courses numbered 300 and above) and must be taken in residence at UWM. No more than 9 credits in one curricular code may be counted towards the certificate. Students are limited to 3 credits in independent studies and 3 credits in internships.

Approved Electives

The following courses are approved to count toward the Food Studies Certificate. Additional courses may be found each semester in the Schedule of Classes. In addition, students are encouraged to consult the Program Coordinators and to petition for the inclusion of relevant courses as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 156</td>
<td>Food and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>BMS 232</td>
<td>Introduction to Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>BMS 290</td>
<td>Topics in Health Sciences: ¹</td>
<td>1-3</td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>BMS 590</td>
<td>Topics in Clinical Laboratory Sciences:</td>
<td>1-5</td>
</tr>
<tr>
<td>CES 571</td>
<td>Practical Approaches to a Sustainable Future</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 160</td>
<td>A Taste of China: Learning Chinese Culture and Society through Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (Discovering Food)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (Cuisine, Community, and Literature)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 461</td>
<td>Film-Fiction Interaction: (Global Food Narratives)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 515</td>
<td>Literature and the Other Arts: (Eating English Literature)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 625</td>
<td>Seminar in Literary History: (Eating English Literature)</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
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<td>---------</td>
</tr>
<tr>
<td>FOODBEV 102</td>
<td>Taste: The Culture and Science of Fermentation</td>
<td>3</td>
</tr>
<tr>
<td>FOODBEV 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>FOODBEV 289</td>
<td>Internship in Food Studies, Lower Division</td>
<td>1-3</td>
</tr>
<tr>
<td>FOODBEV 297</td>
<td>Study Abroad</td>
<td>1-6</td>
</tr>
<tr>
<td>FOODBEV 299</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>FOODBEV 489</td>
<td>Internship in Food Studies, Upper Division</td>
<td>1-3</td>
</tr>
<tr>
<td>FOODBEV 497</td>
<td>Study Abroad</td>
<td>1-6</td>
</tr>
<tr>
<td>FOODBEV 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>FOODBEV 699</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>FRENCH 145</td>
<td>Views of France: (Learning French Culture Through Cuisine)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures: (Cuisines et Cultures Françaises)</td>
<td>1-3</td>
</tr>
<tr>
<td>GERMAN 145</td>
<td>Views of Germany: (Beer, Bread, and Brats)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 600</td>
<td>Seminar in History:</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 256</td>
<td>Introduction to Italian Food Studies: A Cultural History</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 456</td>
<td>Topics in Italian Food Studies:</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 220</td>
<td>Introduction to Japanese Food Studies</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 299</td>
<td>Ad Hoc: (Exploring Israel's Culture, Food, History, and Language)</td>
<td>1-6</td>
</tr>
<tr>
<td>KIN 290</td>
<td>Special Topics in Human Movement Sciences: (Nutrition for the Health Professions)</td>
<td>1-3</td>
</tr>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>RELIGST 350</td>
<td>Advanced Topics in Religious Studies: (Religion in Daily Life: Food, Drink, and Clothing)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 225</td>
<td>Understanding the Hispanic World: (&quot;Food and Culture: Beyond Tacos and Paella&quot; subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 360</td>
<td>Perspectives on the Urban Scene: (You Are Where You Eat: Urban Food Geographies)</td>
<td>3</td>
</tr>
</tbody>
</table>

1 The following subtitled topics courses may be used towards the Undergraduate Certificate in Food Studies: `Introduction to Food Principles and Preparation` or `Life Cycle Nutrition`.

2 The following subtitled topics courses may be used towards the Undergraduate Certificate in Food Studies: `Food, Culture, and Power` or `Food and the City`. 
The fast-growing field of health care informatics seeks professionals with highly specialized training in IT and health care. The program’s interdisciplinary, expert faculty provide training in critical skills like systems analysis and design, decision support, health care applications and procurement and information security.

**Programs**
- Health Care Administration, BS (p. 848)
- Health Care Administration, Minor (p. 850)
- Health Care Informatics, MS (p. 850)
- Health Care Informatics, MS/Library and Information Science, MLIS (p. 851)
- Health Care Informatics, Undergraduate Certificate (p. 853)
- Healthcare Administration, MHA (p. 853)

**Health Care Administration Courses**

**HCA 203 Human Life Cycle**
3 cr. Undergraduate.
Views of leading theorists and recent research in the field of human development will be presented with emphasis on biopsychosocial aspects of the five major stages of development from prenatal through senescence.

*Prerequisites:* soph st or cons instr.
*General Education Requirements:* SS
*Last Taught:* Spring 2018, Fall 2017, Spring 2017, Fall 2016.
*Current Offerings:* [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HCA 212 Drugs Used and Abused**
3 cr. Undergraduate.
An introduction to the mechanisms, actions, uses and abuses of selected licit and illicit drugs from a public health perspective.

*Prerequisites:* soph st or cons instr.
*General Education Requirements:* SS
*Current Offerings:* [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HCA 220 Leading Healthcare Professionals**
3 cr. Undergraduate.
Introduction to effective healthcare leadership of self, others, and groups in complex healthcare settings. Emphasis on leader understanding own temperament and values and healthcare context.

*Prerequisites:* none.
*Current Offerings:* [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HCA 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective**
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.

*Prerequisites:* soph st or cons instr.
*Course Rules:* BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.
*General Education Requirements:* SS, CD
*Current Offerings:* [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HCA 260 Gerontology for Health Care Administrators**
3 cr. Undergraduate.
The administrator’s responsibility for improving resident quality of life in long-term care organizations through an overview of sociological, psychological, and biological aspects of aging.

*Prerequisites:* none.
*Current Offerings:* [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HCA 290 Selected Topics in Health Information Administration:**
1-3 cr. Undergraduate.
Content to be determined as instructional need arises.

*Prerequisites:* none, except as specified for topic.
*Course Rules:* May be retaken for cr w/chg in topic.
*Current Offerings:* [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HCA 297 Study Abroad**
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

*Prerequisites:* acceptance to Study Abroad Prog.
*Course Rules:* May be retaken w/chg in topic.
*Last Taught:* Fall 2010, Summer 2008.
*Current Offerings:* [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HCA 307 Epidemiology for the Health Sciences**
3 cr. Undergraduate.
Introduction to the etiology and distribution of disease and risk factors associated with the determination of disease; applications of epidemiology to the health science professions.

*Prerequisites:* HMS 270(P) or MthStat 215(P)
*Current Offerings:* [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HCA 333 Health Organizations Professional Practice Standards**
2 cr. Undergraduate.
Overview of regulatory statutes, licensure requirements, accreditation and other professional practice standards that affect healthcare organizations.

*Prerequisites:* jr st in Hlth Sci or minor in HCA.
*Current Offerings:* [http://uwm.edu/schedule](http://uwm.edu/schedule)
HCA 340 Healthcare Process Measurement
3 cr. Undergraduate.
Compilation and presentation of healthcare statistics; use of statistical analysis and graphic presentation of data to examine healthcare processes and support decision-making.
Prerequisites: jr st in HlthSci; HMS 270(P) or MthStat 215(P).
Current Offerings: http://uwm.edu/schedule

HCA 361 Structure and Functions of Long-Term Care Facilities
3 cr. Undergraduate.
Nursing home administrator’s domains of practice, nursing facility management innovations, and the long-term care continuum through lectures and site visits.
Prerequisites: HCA 260(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

HCA 362 Legal and Regulatory Aspects of Long-Term Care Facilities
3 cr. Undergraduate.
Legal and regulatory environment of the nursing facility. Reviews state and federal requirements and overviews the survey process designed to protect resident well-being
Prerequisites: HCA 311(C) & 361(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

HCA 411 Disease Classification Systems I
3 cr. Undergraduate.
Disease classification systems with emphasis on hospital applications.
Prerequisites: HCA 222(HIA 222)(P) or equiv; or cons instr.
Last Taught: Fall 2003, Fall 2002, Fall 2001, Fall 2000.
Current Offerings: http://uwm.edu/schedule

HCA 421 Operations Management in Healthcare Organizations
3 cr. Undergraduate.
Application of operations management principles to management of healthcare organizations. Emphasis on tools to plan, organize and control.
Prerequisites: Bus Adm 350(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HCA 422 Human Resource Management in Healthcare Organizations
3 cr. Undergraduate.
Introduction of human relation concepts as it applies to the health care organizations. Emphasis on the application of management responsibilities.
Prerequisites: jr st in HlthSci or HCA minor.
Current Offerings: http://uwm.edu/schedule

HCA 423 Health Information Administration in Specialized Healthcare Facilities
4 cr. Undergraduate.
Study of health information systems in ambulatory, long-term, home health, and other non-hospital settings; site visits and site-specific projects.
Prerequisites: sr st in HCA or cons instr.
Current Offerings: http://uwm.edu/schedule

HCA 430 Patient Registration Management
3 cr. Undergraduate.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

HCA 444 Introduction to Text Retrieval and Its Applications in Biomedicine
3 cr. Undergraduate/Graduate.
Introduction to text retrieval, text classification, and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.
Prerequisites: jr st; CompSci 351(P) or HCA 442(P).
Course Rules: Jointly offered with & counts as repeat of CompSci 444,
CompSci 744, & HCA 744.
Current Offerings: http://uwm.edu/schedule

HCA 450 Healthcare Quality Management
3 cr. Undergraduate.
Theory and development of quality assessment programs in healthcare; involvement of governing board, administration, medical staff, includes review of risk and utilization management programs.
Prerequisites: C L Sci 301-305(P); HMS 270(P) or MthStat 215(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HCA 460 Healthcare Reimbursement Systems and Policies
3 cr. Undergraduate.
History and functioning of healthcare reimbursement systems. Emphasis on the policies and procedures of government and major third party systems.
Prerequisites: HCA 421(P).
Current Offerings: http://uwm.edu/schedule

HCA 480 Competency-Based Internship in Long-Term Care Facilities
3 cr. Undergraduate.
A supervised clinical practicum serving as the capstone fieldwork experience for HCA majors obtaining a sub-major in long-term care administration.
Prerequisites: HCA 362(C) & cons instr.
Current Offerings: http://uwm.edu/schedule

HCA 497 Study Abroad
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2008.
Current Offerings: http://uwm.edu/schedule

HCA 502 Healthcare Delivery Systems: National and International Perspectives
3 cr. Undergraduate.
An analysis of health delivery systems in the U.S. and abroad.
Prerequisites: jr st & completion of HS 102(HCA 102)(P).
Current Offerings: http://uwm.edu/schedule
HCA 520 Clinical Practicum
3 cr. Undergraduate.
Assignments to local health information centers for practical experience; weekly meetings and projects also required.
Prerequisites: sr st in HCA.
Current Offerings: http://uwm.edu/schedule

HCA 521 Advanced Systems Thinking for Healthcare Leaders
3 cr. Undergraduate/Graduate.
An in-depth view of systems theory, Deming's system of profound knowledge, and Goldratt's theory of constraints and how these theories can improve healthcare organizations.
Prerequisites: jr st; HCA 340(P) & Bus Adm 330(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HCA 537 Introduction to Healthcare Databases and Technologies
3 cr. Undergraduate/Graduate.
Introduction to origins, sources and content of healthcare data; technologies used to manage and control healthcare databases.
Prerequisites: jr st in Hlth Sci or minor in HCA or HCl cert or cons instr; HS 224 (HCA 224)(P) or L&I Sci 110(P) or Bus Adm 230(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HCA 540 Health Information Professional Practice
4 cr. Undergraduate.
Four-week professional practice working with and under supervision of an information manager. Pre-practice meetings and post-practice seminar.
Prerequisites: sr st in HCA, HCA 520 (HIA 520)(P).
Current Offerings: http://uwm.edu/schedule

HCA 541 Healthcare Information Systems Analysis and Design
3 cr. Undergraduate/Graduate.
Overview of health facility computerized information systems. Information systems theory, systems analysis, and implementation of computer systems from a managerial/planning perspective.
Prerequisites: jr st, HCA 537(P); or grad st.
Current Offerings: http://uwm.edu/schedule

HCA 542 Healthcare Database Design and Management
3 cr. Undergraduate/Graduate.
Study of database structure, data models, and operations issues. Emphasis on data security, integrity, integration, and access. Healthcare database applications.
Prerequisites: jr st, HCA 541(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HCA 580 Health Care Administration Internship
4 cr. Undergraduate.
Capstone course/Internship experience with administrators in health care agencies and health-related organizations (e.g., hospitals/health systems, ambulatory care/group practices, managed care, rehabilitation facilities, residential/long-term care).
Prerequisites: sr st in HCA prog & cons internship coordinator.
Course Rules: May be retaken to max of 12 cr.
Current Offerings: http://uwm.edu/schedule

HCA 590 Topics in Health Sciences:
1-3 cr. Undergraduate/Graduate.
Topics of current interest within the field of health sciences. The theme for each semester's offering will be posted.
Prerequisites: jr st; cons instr for grad cr.
Course Rules: May be retaken w/chg in topic to max of 9 cr for grad students.
Current Offerings: http://uwm.edu/schedule

HCA 699 Advanced Independent Study:
1-3 cr. Undergraduate/Graduate.
Prerequisites: U: jr st, 2.5 gpa, writ cons instr; G: grad st; writ cons instr.
Course Rules: May be retaken with change in topic.
Current Offerings: http://uwm.edu/schedule

HCA 700 Introduction to Health Care Informatics
2 cr. Graduate.
An introduction to the history, theory, applications, and organizational context of health informatics.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HCA 701 Health Information Technology Procurement
3 cr. Graduate.
A study of the concepts related to acquisition of information technology, including evaluation, selection, and contracts. Emphasis on integration of information technology and strategic planning.
Prerequisites: grad st; Bus Adm 749(C) or CompSci 557(C) or HCA 442 (HIA 442)(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

HCA 722 Legal, Ethical and Social Issues in Health Care Informatics
3 cr. Graduate.
Legal, ethical and social issues in the use of health care computer-based technology and information systems.
Prerequisites: grad st
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

HCA 723 Health Care Systems Applications - Administrative and Clinical
3 cr. Graduate.
A study of the administrative and clinical applications of health information systems with emphasis on content, functional and technical requirements.
Prerequisites: grad st; Bus Adm 749(C) or CompSci 557(C) or HCA 442 (HIA 442)(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

HCA 740 Introduction to Biomedical Database Applications
3 cr. Graduate.
The course surveys the emerging field of biomedical database applications, which includes recurrent themes in biomedical database design.
Prerequisites: grad st or cons instr.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule
HCA 741 Essential Programming for Health Informatics  
3 cr. Graduate.  
Study of programming topics and skills necessary to perform commonly encountered computational tasks in the field of biomedical and health informatics.  
Prerequisites: grad st.  
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.  
Current Offerings: http://uwm.edu/schedule

HCA 742 Computational Intelligence in Health Informatics  
3 cr. Graduate.  
Study of computational intelligence as applied to biomedical and health care informatics.  
Prerequisites: grad st.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

HCA 743 Predictive Analytics in Healthcare  
3 cr. Graduate.  
Study of predictive analytics methods and their healthcare applications.  
Prerequisites: grad st or cons instr.  
Current Offerings: http://uwm.edu/schedule

HCA 744 Text Retrieval and Its Applications in Biomedicine  
3 cr. Graduate.  
Fundamental issues and current research in text retrieval, text classification and their biomedical applications; programming and use of indexing, query processing, and document retrieval methods.  
Prerequisites: grad st; COMPSCI 351 (P) or HCA 442 (P) or cons instr.  
Course Rules: Not open to students who have cr in COMPSCI 744, COMPSCI 444 or HCA 444.  
Last Taught: Fall 2016, Fall 2015, Fall 2007.  
Current Offerings: http://uwm.edu/schedule

HCA 745 Health Big Data Processing Platforms  
3 cr. Graduate.  
Study of big data processing techniques in healthcare.  
Prerequisites: HCA 741(P); grad st or cons instr.  
Current Offerings: http://uwm.edu/schedule

HCA 760 Biomedical and Healthcare Terminology and Ontology  
3 cr. Graduate.  
Theory and application of ontology, controlled terminology, and coding to health information systems.  
Prerequisites: grad st  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.  
Current Offerings: http://uwm.edu/schedule

HCA 776 Biomedical Natural Language Processing  
3 cr. Graduate.  
Study of basic and essential concepts, techniques, and tools of Natural Language Processing for its application to the biomedical domain.  
Prerequisites: grad st; B or better in HCA 741 or cons instr. Computer and internet access required.  
Current Offerings: http://uwm.edu/schedule

HCA 789 Biomedical Information Extraction  
3 cr. Graduate.  
Applications of Natural Language Processing Methods to Biomedical Information Extraction Tasks.  
Prerequisites: grad st; B or better in HCA 776 or cons instr. Counts as a repeat of HCA 590 with same topic.  
Current Offerings: http://uwm.edu/schedule

HCA 801 Design of Health and Human Service Systems  
3 cr. Graduate.  
Develop and apply skills in analysis, synthesis and evaluation of systemic components necessary to delivery health care services in the United States of America. Counts as repeat of HCA 590 of same topic.  
Prerequisites: grad st; admis to MHA major; or cons instr.  
Last Taught: Fall 2017.  
Current Offerings: http://uwm.edu/schedule

HCA 813 Health Regulatory Policy and Politics  
3 cr. Graduate.  
Social and political foundations of healthcare regulations including legal factors affecting patient/client care, operations, the administration of healthcare facilities and systems.  
Prerequisites: grad st; admis to MHA major; or cons instr.  
Course Rules: Counts as repeat of HCA 590 of same topic.  
Last Taught: Fall 2017.  
Current Offerings: http://uwm.edu/schedule

HCA 821 Operations Management in Healthcare Organizations  
3 cr. Graduate.  
Fundamental principles, concepts, and approaches regarding health care operations management, quality management, and process improvement.  
Prerequisites: grad st; admis to MHA major; or cons instr.  
Course Rules: Counts as repeat of HCA 590 of same topic.  
Last Taught: Fall 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

HCA 822 Human Resources Management for Healthcare Executives  
3 cr. Graduate.  
Human resources management functions, processes and systems within healthcare organizations including recruitment, selection, training of personnel and the legal and regulatory environment.  
Prerequisites: grad st; admis to MHA major; or cons instr.  
Course Rules: Counts as repeat of HCA 590 of same topic.  
Current Offerings: http://uwm.edu/schedule

HCA 823 Strategic Planning in Health Care Organizations  
3 cr. Graduate.  
Application of decision support for strategic planning in health care organizations. Counts as repeat of HCA 590 of same topic.  
Prerequisites: grad st; admis to MHA major; or cons instr.  
Last Taught: Spring 2018.  
Current Offerings: http://uwm.edu/schedule

HCA 830 Social Media & Healthcare: Opportunities & Pitfalls  
3 cr. Graduate.  
Social media for healthcare providers, self-management, disease surveillance, mood/depression detection, social support for patients with chronic diseases. Social media as platforms for collaboration.  
Prerequisites: grad st; admis to MHA or MS-HCI program; or cons instr.  
Course Rules: Counts as repeat of HCA 590 of same topic.  
Current Offerings: http://uwm.edu/schedule
HCA 835 Patient-Provider Communication: Strategies & Practices
3 cr. Graduate.
Communication techniques including technological skills, social media skills, inter-cultural skills and the ability to understand the new and evolving empowered patients. Counts as repeat of HCA 590 of same topic.
Prerequisites: grad st; admis to MHA or MS-HCI program; or cons instr
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

HCA 865 Financial Management for Health Care Organizations
3 cr. Graduate.
Skills in analysis, synthesis and evaluation of advanced financial management theories, principles, concepts and techniques important to health management.
Prerequisites: grad st; admis to MHA major; or cons instr
Course Rules: Counts as repeat of HCA 590 of same topic.
Current Offerings: http://uwm.edu/schedule

HCA 866 Leading Change & Innovation in a System
3 cr. Graduate.
Management of innovation business projects, including multi-tier contracting, virtual manufacturing, quality targeting and pursuit, and global operations. Counts as repeat of HCA 590 of same topic.
Prerequisites: grad st; admis to MHA major; or cons instr
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HCA 867 Leading Strategic Innovation in a Competitive Global Market
3 cr. Graduate.
Overview of healthcare in 11 developing/industrialized countries. Integrated approach and synthesis-based organizational framework explored. Leadership strategies for analysis and solutions to current issues developed.
Prerequisites: grad st; admis to MHA major; or cons instr
Current Offerings: http://uwm.edu/schedule

HCA 868 Health Law
3 cr. Graduate.
Critical examination for healthcare specific issues and differences from other industries; financial and accounting practice; legal requirements and constraints; ethical issues facing healthcare managers.
Prerequisites: grad st; admis to MHA major; or cons instr
Current Offerings: http://uwm.edu/schedule

HCA 869 Health Care Compliance
3 cr. Graduate.
Fundamentals of health care compliance, following Health Care Compliance Association expectations. Partial preparation for Certification in Healthcare Compliance (CHC) exam offered by Compliance Certification Board.
Prerequisites: grad st; or cons instr.
Current Offerings: http://uwm.edu/schedule

HCA 870 Internship in Health Care Administration
2 cr. Graduate.
Fieldwork placement in a staff or administrative position.
Prerequisites: grad st; admis to MHA program; or cons instr
Last Taught: Summer 2017, Summer 2016.
Current Offerings: http://uwm.edu/schedule

HCA 871 MHA Capstone
1 cr. Graduate.
Capstone course in which students demonstrate mastery of integration and synthesis of didactic and experiential coursework. Facilitates the turning point from education to professional practice.
Prerequisites: grad st; admis to MHA; or cons instr
Current Offerings: http://uwm.edu/schedule

HCA 890 Health Care Informatics Research and Thesis
1-6 cr. Graduate.
Preparation of a thesis under the direction of the student's major professor.
Prerequisites: grad st, cons instr.
Current Offerings: http://uwm.edu/schedule

HCA 891 Health Care Informatics Professional Project
3 cr. Graduate.
Preparation of a professional project under the supervision of the student's major professor.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HCA 909 Guided Teaching Experience in Health Sciences
3 cr. Graduate.
This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.
Prerequisites: grad st; Occ Thpy 900(P); cons instr
Course Rules: Jointly offered w/ and counts as a repeat of BMS (C L Sci) 909.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

HCA 990 Research and Dissertation
1-6 cr. Graduate.
Research in Health Care Administration and Informatics.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

Health Sciences Courses
HS 101 Introduction to Health and Disease
2 cr. Undergraduate.
A survey of health promotion and disease prevention including fitness, nutrition, disease transmission, mental health, drug use, and other current health-related topics.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HS 102 Healthcare Delivery in the United States
3 cr. Undergraduate.
An introduction to healthcare delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule
HS 105 Survey of the Health Professions
3 cr. Undergraduate.
An introduction to health professions, their work settings and roles on the healthcare team. Other topics include: patient-professional communication, patient characteristics, medical terminology.
Prerequisites: none.
Course Rules: Counts as repeat of HS 105X.
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HS 222 Language of Medicine
3 cr. Undergraduate.
Medical terms used in oral and written communication; reviews terminology by body system with emphasis on application.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

HS 224 Computational Tools for Healthcare Professionals
3 cr. Undergraduate.
Healthcare focused introduction to computational tools for information management, including system architecture, process and ethical concepts. Incorporates training in office application software.
Prerequisites: preprofessional or professional in Health Sciences or HCA minor or HCI cert.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HS 250 Allied Health Information Methods
2 cr. Undergraduate.
Techniques and processes used by allied health personnel to translate thought and behavior into an acceptable style and format for documentation of activities.
Prerequisites: soph st; grade of C or better in English 102(P) or score at level 4 on EPT.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HS 251 Health Documentation
1 cr. Undergraduate.
Appropriate health documentation techniques will be addressed including the medical, legal and reimbursement issues of patient assessment, problem identification, and patient care plans.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HS 311 Law for Healthcare Consumers and Professionals
3 cr. Undergraduate.
An introduction to the law as it relates to health care. Topics include contracts, torts, damages, negligence, malpractice, litigation and trial proceedings.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

HS 620 Environmental Health
3 cr. Undergraduate/Graduate.
An overview of the field of environmental and occupational health is presented, including physical, chemical and biological hazards.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

HS 917 Seminar in Health Outcomes Assessment
3 cr. Graduate.
Conceptual innovations and methodological strategies in outcomes research including implementation in clinical research and practice.
Prerequisites: grad st ; cons instr
Last Taught: Fall 2014, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ron Cisler</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Jennifer Fink</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Rene Gratz</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Rohit Kate</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Jake Luo</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Queen's University, Belfast, UK</td>
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<tr>
<td>John Lynch</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Mary K. Madsen</td>
<td>Professor</td>
<td>PhD</td>
<td>Rensselaer Polytechnic Institute</td>
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<tr>
<td>Priya Nambisan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Cardinal Stritch University</td>
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<tr>
<td>Neil Oldridge</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Kathleen Olewinski</td>
<td>Clinical Associate Professor</td>
<td>MS, RHIA, NHA, FACHE</td>
<td>University of Missouri-Columbia</td>
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<tr>
<td>Timothy Patrick</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Medical College of Virginia</td>
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<tr>
<td>Hanh Trinh</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of North Carolina</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min Wu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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</tbody>
</table>
Health Care Administration, BS

Like all businesses, health care organizations require strong leadership to run smoothly. As an experienced health care administrator, your career could span the operation of a single department to executive leadership and management positions in which you’re responsible for millions of dollars of facilities and equipment as well as hundreds of employees.

Our undergraduate health care administration program will help you master the basic business principles and tools that you’ll need for effective decision-making when you enter this field: finance, information systems, strategic planning, human resource management and marketing. You’ll also develop strong management and leadership abilities — such as business skills, problem-solving, communication, relationship management, diplomacy, collaboration, teamwork, adaptability, change management and mentoring — that will be essential to your success.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>University General Education Requirements</td>
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<td>Major Requirements</td>
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<tr>
<td></td>
<td>Extra-Departmental Requirements</td>
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<td></td>
<td>Total Credits</td>
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</table>

Course of Study

The Health Care Administration program offers a four-year curriculum leading to a Bachelor of Science (BS) degree in Health Care Administration. The curriculum includes all necessary requirements for a minor in business administration. Students begin by taking freshman- and sophomore-level foundation courses in the biological and health sciences, health information administration, as well as the liberal arts. This coursework provides a solid basis for the advanced study of healthcare administration that follows. Successful completion of a faculty-supervised, semester-long internship (minimum of 120 hours) at an approved healthcare agency is required in the senior year.

Admission to the Major

The Health Care Administration program will consider applications to the major at the end of each semester, as long as the student’s cumulative UWM GPA is 2.5 or above, the student has completed the admission prerequisite courses, and the student has met the grade requirements for required courses. Students are encouraged to apply to the major as soon as they meet these requirements and have achieved sophomore status.

Application forms for admission to the major in HCA can be accessed online or can be requested from the College of Health Sciences (CHS) Office of Student Affairs. Completed application forms and copies of transcripts of previous college work can be submitted to the CHS Office of Student Affairs. The following courses are prerequisites for admission:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>COMMUN 103</td>
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<tr>
<td>ECON 103</td>
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<tr>
<td>or ECON 104</td>
<td>Principles of Macroeconomics</td>
<td></td>
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</tbody>
</table>

Students are required to earn a grade of C+ or higher in all HCA and HS courses, and a grade of C or higher in all other required courses. Students who twice earn a grade lower than these requirements in any required course will not be admitted, and if previously admitted, will be dismissed from the HCA major. Such students can submit an appeal to remain in the HCA major.

No student applying to the program with a cumulative UWM GPA lower than 2.5 will be admitted. A student whose cumulative UWM GPA falls below 2.5 will be placed on probationary status and will not be able to graduate with the degree in Health Care Administration until his or her cumulative UWM GPA is 2.5 or higher. Students remaining on probation for more than two consecutive semesters will be dismissed from the major.

Requirements for Internship

The faculty-supervised internship (minimum of 120 hours) is an integral component of the Health Care Administration major. Students, under the direction of a preceptor, are given opportunities for management-related experience in local, national, and international healthcare organizations. Students must be admitted to the major and complete the internship application form by October 1 to be considered for the spring semester and March 1 for the fall semester. Summer internships will be considered for approval on a case-by-case basis, and the application deadline is March 1. Prior to internship, students must complete a background check and must meet physical and health screening requirements.

Graduation Requirements

The following requirements must be met to graduate:

1. Completion of the required 128 credits;
2. A cumulative UWM GPA of 2.5;
3. A grade of C+ or better in all Health Care Administration courses (HCA & HS) and a C or better in all other required courses; and
4. Completion of all University General Education Requirements (p. 33).

Degree Requirements

<table>
<thead>
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<tr>
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<td>Competency Requirements</td>
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<td>Oral and Written Communication (OWC) Part A &amp; B:</td>
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<td>COMMUN 103 Public Speaking</td>
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<td>Quantitative Literacy (QL) Part A &amp; B:</td>
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<td></td>
<td>MATH 211 Survey in Calculus and Analytic Geometry</td>
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<td></td>
<td>Foreign Language</td>
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<td></td>
<td>Social Sciences</td>
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</table>
### Cultural Diversity

**Electives**

Select 13 credits

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<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>HCA 203</td>
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<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
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<td>HCA 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
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<td>HCA 307</td>
<td>Epidemiology for the Health Sciences</td>
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<tr>
<td>HCA 333</td>
<td>Health Organizations Professional Practice Standards</td>
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<td>HCA 421</td>
<td>Operations Management in Healthcare Organizations</td>
<td>3</td>
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<td>HCA 422</td>
<td>Human Resource Management in Healthcare Organizations</td>
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<td>HCA 450</td>
<td>Healthcare Quality Management</td>
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<tr>
<td>HCA 460</td>
<td>Healthcare Reimbursement Systems and Policies</td>
<td>3</td>
</tr>
<tr>
<td>HCA 502</td>
<td>Healthcare Delivery Systems: National and International Perspectives</td>
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<tr>
<td>HCA 521</td>
<td>Advanced Systems Thinking for Healthcare Leaders</td>
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<td>HCA 537</td>
<td>Introduction to Healthcare Databases and Technologies</td>
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<td>HCA 541</td>
<td>Healthcare Information Systems Analysis and Design</td>
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<td>HCA 542</td>
<td>Healthcare Database Design and Management</td>
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<td>HS 101</td>
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<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
<td>3</td>
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<tr>
<td>HS 105</td>
<td>Survey of the Health Professions</td>
<td>3</td>
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<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
<td>3</td>
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<tr>
<td>HS 250</td>
<td>Allied Health Information Methods</td>
<td>2</td>
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<tr>
<td>HS 311</td>
<td>Law for Healthcare Consumers and Professionals</td>
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### Extra-Departmental Requirements

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<thead>
<tr>
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<tbody>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
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<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
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<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
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<td>BMS 302</td>
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<td>Human Pathophysiology: Organ Systems II</td>
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<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<td>Introduction to Financial Accounting</td>
<td>4</td>
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<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
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<td>BUS ADM 350</td>
<td>Principles of Finance</td>
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<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
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### Major Requirements

Select 13 credits

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<td>ECON 103</td>
<td>Principles of Microeconomics</td>
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<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
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<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
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<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
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**Total Credits: 128**

1. General Education Requirements (GERs): The courses required within the HCA curriculum satisfy the University’s General Education requirements for Cultural Diversity, Social Sciences, Natural Sciences, Quantitative Literacy and Oral and Written Communication (Exception: Students still need to satisfy the OWCB requirement, and may take ENGLISH 205 to meet this University GER requirement); students should use their elective credits to satisfy GER requirements for the Humanities and the Arts.

### Curriculum for the Health Care Administration Major

#### Course Title Credits

**Year 1**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Course Code</th>
<th>Title</th>
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<tr>
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<tr>
<td>HS 101</td>
<td>Introduction to Health and Disease</td>
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</tr>
<tr>
<td>HS 102</td>
<td>Healthcare Delivery in the United States</td>
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<td>HS 105</td>
<td>Survey of the Health Professions</td>
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<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
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<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
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<td>HS 250</td>
<td>Allied Health Information Methods</td>
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<td>Law for Healthcare Consumers and Professionals</td>
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**Total Credits: 15**

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<td>COMMUN 103</td>
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<td>HS 222</td>
<td>Language of Medicine</td>
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<td>HS 250</td>
<td>Allied Health Information Methods</td>
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<td>Leading Healthcare Professionals</td>
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<td>Human Pathophysiology: Fundamentals</td>
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<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
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<td>3</td>
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<td>HCA 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
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<td>HCA 307</td>
<td>Epidemiology for the Health Sciences</td>
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**Total Credits: 15**

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<td>BUS ADM 330</td>
<td>Organizations</td>
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<td></td>
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<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
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<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
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<td>HCA 203</td>
<td>Human Life Cycle</td>
<td>3</td>
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<td>HCA 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
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<td>HCA 307</td>
<td>Epidemiology for the Health Sciences</td>
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<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
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</tbody>
</table>

**Total Credits: 18**

*University of Wisconsin-Milwaukee*
Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Health Care Administration, Minor

Requirements

The minor in Health Care Administration consists of 17 credits and may be declared once a student has completed a minimum of 45 credits and achieved a minimum cumulative GPA of 2.5. To obtain the minor, a student must complete at UWM the 17 credits on which a minimum 2.5 cumulative GPA is also required. Declaration forms for the Health Care Administration Minor are available in the College of Health Sciences, Office of Student Affairs, NWQ Building B, 6th Floor. For more information or to schedule an advising appointment, please call (414) 229-2758.

Health Care Informatics, MS

The Department of Health Informatics and Administration in the College of Health Sciences offers the Master of Science in Health Care Informatics degree. Health care informatics focuses on the use of information technologies, data analytics and automation to improve health care. Professional expertise in health care informatics is needed by hospitals and other health care providers, medical centers and facilities, medical software companies, pharmaceutical companies, public health organizations, health insurance companies and medical research institutions. The master’s program is designed to meet the demand for highly trained health care informatics professionals. The curriculum covers several areas including: systems analysis and design, database design and management, clinical decision support and computer programming. Students also get exposed to cutting-edge research in areas such as big data, predictive analytics, natural language processing, medical knowledge representation and information retrieval, which are rapidly becoming indispensable for improving health care.

The program is designed for both full-time and part-time students. Courses are offered both face-to-face and online. Mid-career professionals can use the fully online option for completing the degree.
Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) and submit GRE scores taken within the past five years (GRE requirement will be waived for applicants who already hold another master’s degree or PhD, or the equivalent). No specific undergraduate major is necessary for admission. A typical applicant will have background in a health-related field or in an information/computer related field, but applicants from other academic or professional backgrounds are welcome to apply who will be considered on a case-by-case basis.

Credits and Courses
The Master of Science in Health Care Informatics degree will be awarded upon completion of appropriate 32 credits (non-thesis option) or 35 credits (thesis option) of prescribed graduate study; 23 credits of core courses and 6 credits of electives are required, plus either 3 credit HCA 891 or 6 credits HCA 890.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>HCA 700</td>
<td>Introduction to Health Care Informatics</td>
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<td>HCA 741</td>
<td>Essential Programming for Health Informatics</td>
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<td>HCA 760</td>
<td>Biomedical and Healthcare Terminology and Ontology</td>
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<td>HCA 723</td>
<td>Health Care Systems Applications - Administrative and Clinical</td>
<td>3</td>
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<td>HCA 541</td>
<td>Healthcare Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>HCA 722</td>
<td>Legal, Ethical and Social Issues in Health Care Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HCA 740</td>
<td>Introduction to Biomedical Database Applications</td>
<td>3</td>
</tr>
<tr>
<td>HCA 742</td>
<td>Computational Intelligence in Health Informatics</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 721</td>
<td>Health Information Technology Procurement</td>
</tr>
<tr>
<td>HCA 743</td>
<td>Predictive Analytics in Healthcare</td>
</tr>
<tr>
<td>HCA 744</td>
<td>Text Retrieval and its Applications in Biomedicine</td>
</tr>
<tr>
<td>HCA 745</td>
<td>Health Big Data Processing Platforms</td>
</tr>
<tr>
<td>HCA 776</td>
<td>Biomedical Natural Language Processing</td>
</tr>
<tr>
<td>HCA 789</td>
<td>Biomedical Information Extraction</td>
</tr>
<tr>
<td>HCA 909</td>
<td>Guided Teaching Experience in Health Sciences</td>
</tr>
<tr>
<td>HS 917</td>
<td>Seminar in Health Outcomes Assessment</td>
</tr>
</tbody>
</table>

Project or Thesis

<table>
<thead>
<tr>
<th>HCA 890</th>
<th>Health Care Informatics Research and Thesis (taken for 6 credits)</th>
<th>3-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>or HCA 891</td>
<td>Health Care Informatics Professional Project</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 32-35

1 Electives other than those listed below are to be approved by the student’s major professor.

Thesis/Project Options

Option A: Project Option
The Project option requires students to apply health informatics research and theory to a professional situation. The project must be undertaken in compliance with program requirements under the supervision of a HIA major professor. Students who choose this option count 3 credits of HCA 891 toward the required 32-graduate-credit minimum.

Option B: Thesis Option
The thesis option requires students to plan, design, execute and report results of original applied or basic research. Students who choose the thesis option are responsible for identifying a HIA major professor and a thesis committee. The thesis committee should consist of the major professor and at least two other graduate faculty. The student must pass a comprehensive oral examination in defense of the completed thesis. Students who choose this option count 6 credits of HCA 890 toward the required 35-graduate-credit minimum.

Program Requirements

Major Professor as Advisor
A student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. Initially the director of the HCI Program advises and supervises newly admitted students. Students are then assigned faculty advisors according to faculty advising loads.

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

Health Care Informatics, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses.
These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

**MLIS/MS Health Care Informatics**

The MLIS/MS Health Care Informatics Coordinated Degree Program is designed to provide students with theoretical and practical exposure to the evolving field of healthcare informatics as practiced in hospitals, clinics, professional offices, corporations, the government, the insurance industry, and higher education.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

Students are admitted to both graduate programs separately and admission requirements (http://uwm.edu/graduateschool/admission) are consistent with those specified by the UWM Graduate School, the Department of Healthcare Informatics, and the MLIS program (http://uwm.edu/graduateschool/library-information-science) of the School of Information Studies.

**Credit and Courses**

Students accepted into this MS/MLIS program complete the following courses:

<table>
<thead>
<tr>
<th>Healthcare Informatics</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 700</td>
<td></td>
<td>Introduction to Health Care Informatics</td>
<td>2</td>
</tr>
<tr>
<td>BUS ADM 740</td>
<td></td>
<td>Information Technology Management Concepts and Languages</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 813</td>
<td></td>
<td>Object-Oriented and Visual Paradigms</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td></td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 541</td>
<td></td>
<td>Healthcare Information Systems Analysis and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- BUS ADM 749: Data and Information Management
- COMPSCI 557: Introduction to Database Systems
- COMPSCI 757: Data Base Organization and File Structure
- HCA 542: Healthcare Database Design and Management
- BUS ADM 748: Managing Information Technology Projects

Select one of the following:

- BUS ADM 741: Web Mining and Analytics
- BUS ADM 814: Enterprise Knowledge & Semantic Management
- COMPSCI 720: Computational Models of Decision Making
- HCA 744: Text Retrieval and Its Applications in Biomedicine (pending)

<table>
<thead>
<tr>
<th>Library and Information Science</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td></td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td></td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td></td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td></td>
<td>Research Methods in Information Studies (Culminating experience for the degree)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select at least four of the following: 12-15 credits

- INFOST 521: Introduction to Reference Services and Resources
- INFOST 661: Information Ethics
- INFOST 714: Metadata
- INFOST 791: Topics in Library and Information Science: 1-3 credits

**Other Elective**

Select 3 credits

Total Credits 40-45

Students also must pass a comprehensive examination, or submit and successfully defend a thesis. The thesis option requires additional credits.

- Minimum Credits for MS: 29
- Minimum MLIS Credits: 27
- Minimum Total Credits for the Program: 56

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

**Important**

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

**Program Requirements**

**Time Limit**

Students in the coordinated MS/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
Health Care Informatics, Undergraduate Certificate
(Offered cooperatively by the University of Wisconsin-Milwaukee College of Health Sciences and School of Information Studies.)

UWM offers a certificate in Health Care Informatics, as well as a Master of Science (MS) in Health Care Informatics and a PhD in Medical Informatics. The Certificate in Health Care Informatics provides undergraduate students with the educational foundation to pursue health informatics graduate studies. Students may work towards the certificate concurrently with any undergraduate major or as a post-baccalaureate certificate.

Healthcare organizations employ a vast and complex array of information systems. In order to utilize and maintain these systems, many more knowledgeable and skilled employees are needed.

The objectives of the program are to prepare students to understand, analyze, and evaluate information technology used to perform administrative and clinical tasks in a healthcare organization.

The program is of value to students in the health professions, information studies, and related areas of study who are seeking professional employment with hospitals, clinics, health insurance and pharmaceutical companies, as well as with vendors who have designed, developed, and installed healthcare information systems.

The purpose of the Certificate in Health Care Informatics is to provide an introduction and basic foundation for health professionals, information studies, and other students in the emerging practice of healthcare informatics.

Requirements

Coursework focuses on:

1. Introduction to information technology theory and application, with a special emphasis on internet communication;
2. Analysis and design of information systems in a healthcare environment;
3. Design, creation, and management of healthcare database systems; and
4. Legal aspects of information products and services.

Curriculum

The following requirements must be successfully completed to obtain a Certificate in Health Care Informatics. A minimum grade of C is required in each of the following courses, as well as a 2.5 cumulative GPA across all required courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HS 224</td>
<td>Computational Tools for Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>or INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
<td></td>
</tr>
<tr>
<td>INFOST 230</td>
<td>Organization of Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 250</td>
<td>Internet Communications and Information Transfer</td>
<td>3</td>
</tr>
</tbody>
</table>

Healthcare Administration, MHA

The Department of Health Informatics and Administration offers the Master of Healthcare Administration (MHA) to provide evidence-based training in micro and macro theory and practice to advance the health of individuals and communities—local, national, and international. The program enables students to understand the complex interrelationships between health organizations, societal and cultural contexts, and biological systems, and emphasizes the well-being of the individuals and populations affected by these complex interrelationships. The curriculum is designed for accreditation by the Commission on Accreditation Healthcare Management Education (CAHME.)

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) and submit GRE, GMAT, or other graduate entrance exam scores taken within the past five years. Exceptions to the entrance exam requirement will be determined on a case-by-case basis for exceptional prior professional experience or exceptional academic performance. Credits earned in these courses do not count toward the degree.

Credits and Courses

MHA Options
There are three options for the MHA:

Option 1: Face-to-Face Program
(39 credits required for graduation)

All courses are offered in face-to-face sections; 30 credits of required courses, a 2-credit internship, 1-credit MHA capstone course and 6 credits of electives are required.

Option 2: Online program
(39 credits required for graduation)

All courses are offered online; 30 credits of required courses, a 2-credit internship, 1-credit MHA capstone course and 6 credits of electives are required.

Option 3: Executive Online program
(33 credits required for graduation)
All courses are offered online; 30 credits of required courses, a 2-credit internship and 1-credit MHA capstone course required. Admission to the Executive Online program requires previous health-related administrative experience and an advanced professional degree. Examples of acceptable degrees include MBA, PharmD, PhD, MD, JD, DO, DPT, and APRN.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 801</td>
<td>Design of Health and Human Service Systems</td>
<td>3</td>
</tr>
<tr>
<td>KIN 702</td>
<td>Statistical Analysis in the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>HCA 821</td>
<td>Operations Management in Healthcare Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HCA 822</td>
<td>Human Resources Management for Healthcare Executives</td>
<td>3</td>
</tr>
<tr>
<td>HCA 823</td>
<td>Strategic Planning in Health Care Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HCA 865</td>
<td>Financial Management for Health Care Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HCA 866</td>
<td>Leading Change &amp; Innovation in a System</td>
<td>3</td>
</tr>
<tr>
<td>HCA 867</td>
<td>Leading Strategic Innovation in a Competitive Global Market</td>
<td>3</td>
</tr>
<tr>
<td>HCA 813</td>
<td>Health Regulatory Policy and Politics</td>
<td>3</td>
</tr>
<tr>
<td>HCA 722</td>
<td>Legal, Ethical and Social Issues in Health Care Informatics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Internship**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 870</td>
<td>Internship in Health Care Administration</td>
<td>2</td>
</tr>
</tbody>
</table>

**Required Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 871</td>
<td>MHA Capstone</td>
<td>1</td>
</tr>
</tbody>
</table>

**Focus Area Electives:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 775</td>
<td>Financial Strategy</td>
<td>3</td>
</tr>
<tr>
<td>or NURS 620</td>
<td>Global Food Security and Systems</td>
<td></td>
</tr>
<tr>
<td>NURS 708</td>
<td>Global Maternal and Child Health: From Evidence to Action</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 723</td>
<td>Health Care Systems Applications - Administrative and Clinical</td>
<td></td>
</tr>
<tr>
<td>HCA 743</td>
<td>Predictive Analytics in Healthcare</td>
<td>3</td>
</tr>
</tbody>
</table>

**Program Requirements**

**Major Professor as Advisor**

A student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. Initially the director of the HCI Program advises and supervises newly admitted students. Students are then assigned faculty advisors according to faculty advising loads.

**Time Limit**

All degree requirements must be completed within seven years of the first enrollment semester as a degree student.
HEALTH PROFESSIONAL EDUCATION, GRADUATE CERTIFICATE (COLLEGE OF HEALTH SCIENCES)

The Health Professional Education certificate is designed to provide health professionals with additional preparation in educational principles and theory to support them in their roles as educators of students and staff in the health professions as well as the role of patient educator. This program is open to students simultaneously enrolled in a graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s, or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences and Schools of Nursing and Education, and is coordinated through the College of Nursing.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

Admission
Applicants are admitted to the certificate program in one of three categories: post-baccalaureate, current student in a UWM graduate health profession program, or post-graduate student.

1. Post-baccalaureate students must have completed a bachelor’s degree in a health profession discipline with a grade point average of 2.75 or above (4.0 scale) and not be currently enrolled in a graduate degree program at UWM.
2. The admission requirements of the health professional educational certificate for students enrolled in good standing in a UWM graduate health profession program are consistent with those requirements specified by the program.
3. Post-graduate students must have completed a graduate degree in a health profession or related discipline with a grade point average of 3.0 or above (4.0 scale).

Credits and Courses

The completion of 15 credit hours (5 courses) is required for the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td>6</td>
</tr>
<tr>
<td>NURS 731</td>
<td>Practicum and Seminar in Health Professional Education</td>
<td></td>
</tr>
</tbody>
</table>

Curriculum/Program Planning & Evaluation Courses 3

Select one of the following:
- AD LDSP 667 Program Planning in Adult Education
- AD LDSP 607 Coordination of Staff Development and Training Program
- AD LDSP 647 Evaluation of Adult, Continuing, and Higher Education Programs
- NURS 752 Curriculum Development in Nursing Education

Teaching/Instructional Strategies 3

Select one of the following:
- AD LDSP 687 Instructional Design and Teaching Strategies
- AD LDSP 707 Using Technology With Adult Learners
- AD LDSP 827 Seminar in Adult and Organizational Learning
- NURS 705 Instructional Strategies for Patient Education

Elective Courses 3

Select one additional course from the above or from the following:
- AD LDSP 867 Seminar in Continuing Education in the Professions
- AD LDSP 787 Administration of Adult Education Programs
- AD LDSP 547 The Educational Dimensions of Practice with Older Adults
- NURS 764 Changing Health Behaviors
- CURRINS 774 College Teaching
- NURS 751 Teaching in Practice Disciplines

Total Credits 18

A current listing of courses that meet these requirements can be obtained from the College of Health Sciences or the College of Nursing. Students will need to maintain a 3.0 GPA and meet all other requirements of the Graduate School for continuation in the program. The Practicum and Seminar in Health Professional Education is the last course taken in the certificate program.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.
Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

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

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

The Ph.D. in Health Sciences is an interdisciplinary degree program designed to accomplish three major objectives:

1. Provide advanced study and research training opportunities in the human health sciences.
2. Produce cohorts of scholars capable of advancing the discovery, dissemination, and application of new knowledge in the health sciences.
3. Prepare future academic leaders in the health sciences.

Programs

- Health Sciences, PhD (p. 857)

Health Sciences Courses

HS 101 Introduction to Health and Disease
2 cr. Undergraduate.
A survey of health promotion and disease prevention including fitness, nutrition, disease transmission, mental health, drug use, and other current health-related topics.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HS 102 Healthcare Delivery in the United States
3 cr. Undergraduate.
An introduction to healthcare delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

HS 105 Survey of the Health Professions
3 cr. Undergraduate.
An introduction to health professions, their work settings and roles on the healthcare team. Other topics include: patient-professional communication, patient characteristics, medical terminology.
Prerequisites: none.
Course Rules: Counts as repeat of HS 105X.
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HS 222 Language of Medicine
3 cr. Undergraduate.
Medical terms used in oral and written communication; reviews terminology by body system with emphasis on application.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

HS 224 Computational Tools for Healthcare Professionals
3 cr. Undergraduate.
Healthcare focused introduction to computational tools for information management, including system architecture, process and ethical concepts. Incorporates training in office application software.
Prerequisites: preprofessional or professional in Health Sciences or HCA minor or HCI cert.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HS 250 Allied Health Information Methods
2 cr. Undergraduate.
Techniques and processes used by allied health personnel to translate thought and behavior into an acceptable style and format for documentation of activities.
Prerequisites: soph st; grade of C or better in English 102(P) or score at level 4 on EPT.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HS 251 Health Documentation
1 cr. Undergraduate.
Appropriate health documentation techniques will be addressed including the medical, legal and reimbursement issues of patient assessment, problem identification, and patient care plans.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HS 311 Law for Healthcare Consumers and Professionals
3 cr. Undergraduate.
An introduction to the law as it relates to health care. Topics include contracts, torts, damages, negligence, malpractice, litigation and trial proceedings.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

HS 620 Environmental Health
3 cr. Undergraduate/Graduate.
An overview of the field of environmental and occupational health is presented, including physical, chemical and biological hazards.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

HS 917 Seminar in Health Outcomes Assessment
3 cr. Graduate.
Conceptual innovations and methodological strategies in outcomes research including implementation in clinical research and practice.
Prerequisites: grad st ; cons instr
Last Taught: Fall 2014, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

Health Sciences, PhD

The PhD in Health Sciences curriculum includes a set of core courses providing a comprehensive structure for doctoral education including:

- Philosophical foundations.
- Concepts and practices that contribute to students, development as teaching scholars.
- Research methods.
• A series of seminars that build students, critical thinking skills, familiarity with a range of health sciences research topics, and experience in scholarly dialogue and presentation.

Concentrations and Cross-Disciplinary Courses

In addition to the core courses, the program includes concentration and cross-disciplinary courses in areas such as disability and rehabilitation, diagnostic and biomedical sciences, human movement sciences, population health, and health administration/policy. Independent research and the dissertation will be structured according to the choice of specialization.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline, call the Registrar’s Office at (414) 229-3800 or submit a contact form online.

Admission

To be considered for admission to the program applicants must satisfy all UWM Graduate School admission requirements in addition to the following College of Health Sciences requirements:

1. Submission of scores on the General Test portion of the Graduate Record Examination; test taken within last five years.
2. One of the following:
   • Master’s degree or equivalent in an area that provides foundational academic preparation in proposed Health Sciences PhD Area of Concentration;
   • Bachelor’s degree with exceptional promise, as indicated by research experience/evidence of writing or an undergraduate project, recommendations, GRE, and undergraduate GPA.
3. A sample of the applicant’s written work that demonstrates his or her ability to conduct research and/or the ability to critically analyze the scholarly work of others.
4. A letter outlining the applicant’s academic and professional background, declaration of Area of Concentration and Major Professor as well as specific research interests and goals for the PhD program. This statement should be submitted to the Graduate School and must be complete and thorough as it provides information that is central to the admission decision. This letter will serve in lieu of the Graduate School’s “Reasons for Graduate Study” statement.
5. Three letters of recommendation from individuals familiar with the applicant’s intellectual achievement and potential. At least two of these letters must be from faculty or senior administrators at academic institutions.

For applicants from countries other than the U.S.A. whose first language is not English, a score of at least 250 on the computer-based (or 600 on the paper-based) Test of English as a Foreign Language (TOEFL) is required. A score of 6.5 on the International English Language Testing Systems (IELTS) examination will be accepted in lieu of the TOEFL.

The PhD Steering Committee will make an admission recommendation and forward it to the appropriate College of Health Sciences departmental Graduate Faculty or Executive Committee and identified Major Professor. The final admission decision is contingent upon approval by the departmental Graduate Faculty Committee or Executive Committee, the applicant’s Major Professor, and the Graduate School.

Prior to admission an eligible College of Health Sciences Graduate Faculty member must agree to serve as the applicant’s major professor.

Reapplication

A student who has received a master’s degree in Clinical Laboratory Sciences, Communication Sciences and Disorders, Kinesiology, or Occupational Therapy from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the PhD degree.

Credits and Courses

The PhD program requires 72 credits beyond the Bachelor’s degree, including no more than 36 credits from a related master’s degree and/or other post-baccalaureate coursework. A student must complete a minimum of 36 credits at UWM including dissertation credits. Precise numbers of credits and actual course requirements will be determined after review of the applicant’s previous coursework. The student plans an individual program of study in consultation with the Major Professor and Doctoral Committee that will include a set of core courses, an area of concentration, cross-disciplinary courses, electives, and the dissertation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 901</td>
<td>Seminar on Philosophical Approaches to Science</td>
<td>16</td>
</tr>
<tr>
<td>KIN 702</td>
<td>Statistical Analysis in the Health Sciences</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 900</td>
<td>Teaching, Learning and Educational Leadership in the Health Sciences</td>
<td></td>
</tr>
<tr>
<td>BMS 910</td>
<td>Advanced Seminar in Health Sciences (1 credit, repeated 4 times)</td>
<td></td>
</tr>
</tbody>
</table>

Select a statistical analysis, qualitative analysis, or research methods course approved by the student's Major Professor (3 credits)

<table>
<thead>
<tr>
<th>Area of Concentration</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross Disciplinary Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Dissertation</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Credits 49

Area of Concentration (minimum of 9 credits)

Courses related to the area of concentration will require students to draw upon the strengths and expertise of the faculty and curriculum in an interdisciplinary and collaborative manner. The basis of scientific exploration will be premised on the model adapted by the World Health Organization (WHO) which defines three levels contributing to the concept of health:

1. Intact body structures and unimpaired host functions at the molecular, cellular or organ system level,
2. ability to participate in activities and roles at the level of the living organism or individual person, and
3. a physical and social environment that influences health at the level of society and populations.

Cross Disciplinary Courses (minimum of 6 credits)
Cross-disciplinary courses in areas such as disability and rehabilitation, diagnostic and biomedical sciences, human movement sciences, and population health and health administration/policy, will provide a unique framework and understanding for specific health states, outcomes, determinants, and environmental influences. Each of these specialties reflects trends and needs in health-related fields as well as the current expertise among faculty in CHS.

Electives (6 credits)
Elective courses relevant to the student’s program of study will be selected from within CHS and from departments across campus. This cross-disciplinary approach will encourage collaboration and interaction, and provide breadth and depth to a student’s focused course of study.

Dissertation (minimum of 12 credits)
The last component of the degree requirements, independent research and dissertation, will be structured by the choice of concentration. The dissertation will consist of focused, independent research that contributes to the existing body of knowledge.

Program Requirements

Residence
The student must complete at least half of the graduate credits required for the PhD in residence at UWM in doctoral status. In addition, the student must complete at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. In exceptional cases, modifications of the residence requirement may be requested, subject to the approval of the College of Health Sciences PhD Steering Committee and the Graduate School.

Foreign Language
Foreign language coursework is optional, depending upon the recommendation of the student’s Major Professor.

Doctoral Committee
In consultation with the Major Professor, each student is responsible for selecting a Doctoral Committee before completing 12 credits in the doctoral program. The doctoral committee shall consist of the student’s major professor and four other graduate faculty; three of these must be at UWM, including at least two from CHS. The other member may be from another institution, subject to the approval of the student’s program executive committee. Upon formation of the Doctoral Committee, the student must file a “Doctoral Committee” form with his/her major professor which is to be subsequently filed with the CHS – PhD Steering Committee.

Doctoral Preliminary Examinations
The doctoral preliminary examinations must be completed within three years of initial enrollment in the program. Students may receive up to two additional semesters to complete the preliminary examinations with approval of the CHS – PhD Steering Committee. The examinations consist of a written examination designed to demonstrate the breadth of a student’s knowledge and the ability to conduct advanced research, and an oral exam covering issues raised during the written exam and/or focusing on the proposed dissertation research. The oral exam must follow the written exam within 10 days. Students take the preliminary examinations after completing all doctoral coursework or with no more than three credits of doctoral coursework remaining. Students cannot take the examinations if they have any incomplete or unreported grades or a GPA lower than 3.0. Students who fail the preliminary examinations may not proceed to the dissertation. The examinations may be retaken only once.

Dissertation Proposal
Upon successful completion of the preliminary examinations, the student submits a written dissertation proposal and delivers an oral presentation of the proposed research to the Dissertation Committee. The proposal takes the form of a scholarly document outlining the problem, its background and significance, summarizing relevant literature, and outlining the proposed research methods. It should include a tentative timetable and outline any required resources (space, equipment, etc.). Members of the student’s Dissertation Committee must approve the dissertation proposal. Acceptance of the dissertation proposal establishes an agreement between the student and the Dissertation Committee as to the nature and scope of the research to be conducted, and the procedure for completing the dissertation. Upon Dissertation Committee approval, research proposals that use animal or human subjects must receive approval from the Animal Care and Use Committee or the Institutional Review Board.

Dissertator Status
Specific requirements which must be completed before a doctoral student qualifies for dissertator status are described on the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements) page.

Dissertation
The dissertation is a major piece of original research representing a substantial contribution to the existing body of knowledge. The original research findings embodied in the dissertation should be acceptable for publication in a refereed journal. The student’s Major Professor and Dissertation Committee provide guidance in completing the dissertation.

Dissertation Defense
Once the dissertation document meets with Dissertation Committee approval, an oral defense takes place. At the time of the defense, the dissertation must be of publication-quality (as judged by the Dissertation Committee). The dissertation defense will be held in an open forum after which the Dissertation Committee will meet in closed session to make a decision on degree conferral. The time and place of the public presentation must be announced with adequate time (i.e., at least one week prior to the defense) so that faculty and students may attend.

Time Limit
The student must complete all requirements for the degree within seven years of the date of initial enrollment in the program. Upon successfully passing the preliminary examinations, the student must complete all requirements for the degree within four years.
INTERPROFESSIONAL GRADUATE CERTIFICATE IN PUBLIC AND POPULATION HEALTH (COLLEGE OF HEALTH SCIENCES)

The Interprofessional Graduate Certificate in Public and Population Health is designed for students and working professionals involved in program planning and implementation, evaluation, education policy, health policy, engineering administration, research, and other areas related to public and population health. It recognizes that an interdisciplinary, systems approach is essential for communities to solve complicated social and economic problems. No one perspective or set of strategies can address the many dimensions of current societal problems. Prevention and population health are important cornerstones of the solutions to these problems, requiring linkages and new models of interaction among primary care, hospitals, communities and public health.

The Interprofessional Graduate Certificate is a 16-credit program with courses in four core disciplines: epidemiology, health policy, social and behavioral health, and environmental health. The fifth course grounds students in public health principles and practice. The sixth course will provide students the opportunity to engage in interprofessional workshops and other learning forums to foster competencies in interprofessional values, communication and teamwork. Three of the courses, in health behavior, epidemiology and health policy, are offered online, which will provide added flexibility for students.

This program is open to post-baccalaureate students, to those currently enrolled in a UWM graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences, College of Nursing, and the Zilber School of Public Health, and is coordinated through the Zilber School of Public Health.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://graduate.uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application

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

Credits and Courses

The completion of 16 credit hours is required for the certificate program. All students are required to complete six courses (All are 3 credits unless noted):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NURS 727</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 556</td>
<td>Multilevel Approaches to Changing Physical Activity and Eating Behaviors</td>
<td>3</td>
</tr>
<tr>
<td>or KIN 732</td>
<td>Physical Activity and Health Across the Lifespan</td>
<td></td>
</tr>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 703</td>
<td>Foundations of Interprofessional Practice</td>
<td>1</td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

Students will need to maintain a 3.0 GPA and meet all other standard requirements for UWM graduate students for continuation in the program.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

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

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

Kinesiology

What is Kinesiology? "Kinesiology is an academic discipline that involves the study of physical activity and its impact on health, society, and quality of life." – American Kinesiology Association

Students majoring in kinesiology study the social, behavioral, mechanical, and physiological principles of human movement. Kinesiology students are the future health and fitness providers who use preventative and rehabilitative intervention techniques in commercial health/fitness clubs, community fitness centers, corporate/industrial fitness facilities, and clinical agencies with specialization in cardiac/pulmonary rehabilitation. Two tracks are available to Kinesiology students: Exercise Science and Health Promotion.

The Kinesiology major with the Exercise Science track can be tailored to prepare individuals seeking specialized future careers in the allied health/movement science fields, such as physical therapy, exercise physiology, or chiropractic care, as well as the medical field in areas such as nursing, physician assistant, or traditional medicine. Typically, these types of careers in Kinesiology require post baccalaureate and continuing education for practice and the Exercise Science track provides flexibility to include required coursework.

Kinesiology majors wishing to gain hands-on skills and practice in applying the science of kinesiology in real world settings can select the Health Promotion track. Students in the Health Promotion track complete an internship in their final semester and are well-positioned to either continue their education in graduate Kinesiology or related programs or move into the workforce.

Both tracks allow students the flexibility to complete a minor or certificate to complement students’ particular interests. For instance, the student could acquire a business minor in preparation for entering the job market at a supervisory/administrative level, which should provide a fast track to management within health and fitness facilities, community fitness centers, and with entrepreneurial ventures.

Athletic Training

Certified athletic trainers are healthcare professionals who specialize in preventing, recognizing, managing, and rehabilitating injuries in physically active individuals. As part of a complete healthcare team, the certified athletic trainer works under the direction of a licensed physician and in cooperation with other healthcare professionals, athletics administrators, coaches, and parents.

Master of Science in Athletic Training (MS-AT)

To continue our leadership in Athletic Training education, we are revising our program to reflect the changed nature of professional practice demanding more interprofessional collaboration, a higher degree of autonomy requiring advanced development of clinical reasoning skills, and a skill set in evidence-based practice that allows graduates to actively engage in the rapidly changing science surrounding healthcare practice. Therefore, we have established a graduate, professional education program where students would earn a Master of Science in Athletic Training. The program was implemented during the 2015-2016 academic year, with the first students beginning the program for the summer session of 2017. Please refer to the program website for additional information and updates (www.atep.uwm.edu (http://www.atep.uwm.edu)).

Nutritional Sciences

The Nutritional Sciences (NUTR) program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health. The curriculum provides a varied foundation in research, education, industry, and government and serves as an excellent pre-professional major for students planning a career in health fields such as physical therapy, medicine, pharmacy, or dentistry. The NUTR curriculum also offers an ideal preparation for advanced graduate training in nutrition, biochemical, molecular biology, public health, and related disciplines.

Programs

Undergraduate Degrees

- Kinesiology, BS (p. 880)
- Nutritional Sciences, BS (Department of Kinesiology) (p. 886)

Undergraduate Minors

- Kinesiology, Minor (p. 882)
- Nutritional Sciences, Minor (Department of Kinesiology) (p. 887)

Undergraduate Certificates

- Complementary and Integrative Health Approaches, Undergraduate Certificate (p. 879)
- Healthy Aging, Undergraduate Certificate (p. 879)

Graduate Degrees

- Applied Gerontology, Graduate Certificate (College of Health Sciences, Department of Kinesiology) (p. 877)
- Athletic Training, MS (p. 878)
- Kinesiology, MS (p. 883)
- Kinesiology, PhD (p. 884)

Requirements for Employment, Licensing, or Professional Organizations

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

Kinesiology Courses

KIN 190 Topics Course in Physical Activity

1-3 cr. Undergraduate.

Introductory level topics of current interest in health and physical activity. Special course fees may be required depending on topic.

Prerequisites: none, except as required for specific topic.

Course Rules: Counts as repeat of Spt&Rec 290 & Kin 290 with same topic. May be retaken w/chg in topic.

Current Offerings: http://uwm.edu/schedule
KIN 200 Introduction to Kinesiology
3 cr. Undergraduate.
Introduction to the discipline of kinesiology and its subdisciplines of exercise physiology, motor behavior, biomechanics, and psychology and sociology of physical activity.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 201 Field Experience in Kinesiology
1 cr. Undergraduate.
Lecture/discussion/site visitation exploring the broad field of Kinesiology and typical service delivery systems, e.g., campus, community, commercial, industrial and clinical.
Prerequisites: Kin 202(C).
Course Rules: Counts as repeat of Kin 210.
Last Taught: Spring 2011, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

KIN 202 Field Work in Kinesiology
1 cr. Undergraduate.
Practical, supervised, service-learning in the field of kinesiology.
Prerequisites: Kin 201(C).
Course Rules: Counts as repeat of Kin 210.
Last Taught: Spring 2011, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

KIN 203 Field Experience in Kinesiology
1 cr. Undergraduate.
Practical, supervised, service-learning in the field of kinesiology.
Prerequisites: Kin 201(C).
Course Rules: Counts as repeat of Kin 210.
Last Taught: Spring 2011, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

KIN 211 First Aid and Cardiopulmonary Resuscitation
1 cr. Undergraduate.
CPR for adults, children, and infants; AED; and First Aid.
Prerequisites: Kin 201(C).
Current Offerings: http://uwm.edu/schedule

KIN 212 Fieldwork in Athletic Training
1 cr. Undergraduate.
On-site observation of the athletic training profession. Students will rotate through different on-campus sites.
Prerequisites: Kin 310(C).
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

KIN 214 Seminar in Athletic Training
1 cr. Undergraduate.
Exposure to peer presentations, guest lectures on current topics, current literature updates/discussion, and program information updates.
Course Rules: Must be taken by student in the ATEP each sem of prog.
Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

KIN 215 Field Experience in Athletic Training
1 cr. Undergraduate.
Practical, supervised, service-learning in the field of kinesiology.
Prerequisites: Kin 201(C).
Course Rules: Counts as repeat of Kin 210.
Last Taught: Spring 2011, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

KIN 216 Organization and Administration of Athletic Training
3 cr. Undergraduate.
Delivery of athletic training services in various settings. Topics include program, personnel, information management, budgeting, documentation, insurance, legal considerations and current topics.
Prerequisites: admitted to athletic training maj; Kin 316(P), Kin 410(C) & Kin 416(C); or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 230 Health Aspects of Exercise and Nutrition
3 cr. Undergraduate.
Examines physical fitness and proper nutrition as lifestyle choices in maintaining optimal health and minimizing health risks.
Prerequisites: none.
Course Rules: Not open to students with credit in Kin 330, 530, 532, or 536.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

KIN 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.
Prerequisites: soph st or cons instr.
Course Rules: BMS/ComSDis/HCA/Kin/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

KIN 255 Women in Sport and Physical Activity
3 cr. Undergraduate.
Introduction theory and research on female participation in sport and physical activity.
Prerequisites: soph st or cons instr.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

KIN 270 Statistics in the Health Professions: Theory and Practice
3 cr. Undergraduate.
Overview of statistical theory and practical application for health professionals. Includes problem solving strategies, descriptive and inferential techniques, and critical evaluation of research design.
Prerequisites: Satisfaction of Quantitative Literacy Part A.
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 289 Seminar in Athletic Training
0 cr. Undergraduate.
Exposure to peer presentations, guest lectures on current topics, current literature updates/discussion, and program information updates.
Course Rules: acceptance into Athletic Training prog.
Acceptance to UROP prior or conc reg in UROP sem; cons instr.
May be retaken w/chg in topic.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

KIN 290 Special Topics in Human Movement Sciences:
1-3 cr. Undergraduate.
Topics of current interest in kinesiology, health, and fitness. Special course fees may be required depending on course.
Prerequisites: specified in semester Schedule whenever required for a topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

KIN 296 UROP Research Study:
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising faculty member. One credit for 45 hours research.
Prerequisites: Acceptance to UROP prior or conc reg in UROP sem; cons instr.
Course Rules: May be retaken to 9 cr max in any combination of UROP Research Study courses.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule
KIN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specifically
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

KIN 298 Independent Projects
1-3 cr. Undergraduate.
Designed for individual and small group research projects under faculty
supervision.
Prerequisites: writ cons instr.
Last Taught: Fall 2016, Summer 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

KIN 299 Independent Reading
1-3 cr. Undergraduate.
Designed for individual and small groups in special study. Meetings/
nature of study to be arranged with staff/faculty chosen to supervise.
Prerequisites: cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 300 Professional Preparation Seminar
1 cr. Undergraduate.
Seminar lecture/discussion to prepare students for internships and other
professional opportunities. Topics include goal setting, resume-writing,
site selection, interviewing techniques, and professional development.
Prerequisites: admis to Kin major or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 301 Field Experience in Kinesiology - I
1 cr. Undergraduate.
Science and methods of exercise instruction for leading groups.
Prerequisites: admis to Kin major.
Course Rules: Counts as repeat of Kin 290 w/same topic.
Last Taught: Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 302 Field Experience in Kinesiology - II
1 cr. Undergraduate.
Science and methods of exercise instruction for coaching and training
individuals.
Prerequisites: admis to Kin major.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

KIN 303 Field Experience in Kinesiology - III
1 cr. Undergraduate.
Continued exposure to hands-on aspect of the field; prepare students for
internship and develop advanced professional skills and conduct.
Prerequisites: Kin 302(P); & Kin 325(P), 336(C), 430(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 304 Field Experience in Kinesiology - IV
1 cr. Undergraduate.
Continued exposure to hands-on aspect of the field; prepare students for
internship and develop advanced professional skills and conduct.
Prerequisites: Kin 303(P); & Kin 325(P), 336(C), 430(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 305 Field Experience in Kinesiology - V
1 cr. Undergraduate.
Continued exposure to hands-on aspect of the field; prepare students for
internship and develop advanced professional skills and conduct.
Prerequisites: Kin 304(P); & Kin 325(P), 336(C), 430(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 306 Field Experience in Kinesiology - VI
1 cr. Undergraduate.
Continued exposure to hands-on aspect of the field; prepare students for
internship and develop advanced professional skills and conduct.
Prerequisites: Kin 305(P); & Kin 325(P), 336(C), 430(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 307 Field Experience in Kinesiology - VII
1 cr. Undergraduate.
Continued exposure to hands-on aspect of the field; prepare students for
internship and develop advanced professional skills and conduct.
Prerequisites: Kin 306(P); & Kin 325(P), 336(C), 430(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 308 Field Experience in Kinesiology - VIII
1 cr. Undergraduate.
Continued exposure to hands-on aspect of the field; prepare students for
internship and develop advanced professional skills and conduct.
Prerequisites: Kin 307(P); & Kin 325(P), 336(C), 430(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 309 Field Experience in Kinesiology - IX
1 cr. Undergraduate.
Continued exposure to hands-on aspect of the field; prepare students for
internship and develop advanced professional skills and conduct.
Prerequisites: Kin 308(P); & Kin 325(P), 336(C), 430(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 310 Responding to Emergencies
1 cr. Undergraduate.
Focus on the development of skills necessary for professionals to act as
‘first responders’ in providing emergency medical care.
Prerequisites: Kin 212(C).
Course Rules: Credit/No Credit only.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

KIN 311 CPR/AED Recertification
1 cr. Undergraduate.
CPR/AED recertification and review of basic First Aid.
Prerequisites: Kin 211 or CPR & standard first aid certification.
Current Offerings: http://uwm.edu/schedule

KIN 312 Introduction to Prevention, Recognition, and Treatment of
Athletic Injuries
3 cr. Undergraduate.
Introduction to athletic training principles and techniques necessary for
the prevention, recognition, care, and rehabilitation of athletic injuries.
Prerequisites: enrolled in ATEP Program, Kin 310(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 314 Recognition and Evaluation of Injuries: Lower Extremity
3 cr. Undergraduate.
Techniques/knowledge necessary to perform examination, treatment,
prevention, and rehabilitation of sport-related injuries and illnesses of the
lower extremity and associated areas.
Prerequisites: admis to athletic training major; Kin 413(C), & 416(C); or
cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

KIN 315 Recognition and Evaluation of Injuries: Upper Extremity
3 cr. Undergraduate.
Techniques/knowledge necessary to perform examination, treatment,
prevention, and rehabilitation of sport-related injuries and illnesses of the
upper extremity and associated areas.
Prerequisites: admis to athletic training major; Kin 413(P), & 416(C); or
cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 316 Recognition and Evaluation of Athletic Injuries: Head, Neck, and
Trunk
3 cr. Undergraduate.
Techniques/knowledge necessary to perform examination, treatment,
prevention, and rehabilitation of sport-related injuries and illnesses of the
head, neck, and torso.
Prerequisites: admis to athletic training major; Kin 315(P), 414(C) &
416(C); or cons instr.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
KIN 320 Biomechanics
3 cr. Undergraduate.
Application of physical laws and mechanical principles to human
movement.
Prerequisites: admis to Kin major; or admis to Kin minor and Bio Sci 202(P) & Physics 120(P) with a C or greater; or cons instr.
Course Rules: Not open to students w/ cr in Kin 520.
Current Offerings: http://uwm.edu/schedule

KIN 325 Anatomical Kinesiology
3 cr. Undergraduate.
Anatomical analysis of the human body including joint actions,
anatomical, muscular, and neuromuscular control aspects necessary for
movement.
Prerequisites: admis to Kin major, Ath Trng major or OT prog. Bio Sci 202(P) & 203(C) or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 330 Exercise Physiology
4 cr. Undergraduate.
Study of the physiological responses to exercise and the adaptations to
physical training.
Prerequisites: admis to Kin major; or admis to Kin minor & Bio Sci 203(P) & Chem 100(P), 102(P), or 104(P) with grade of C or greater; or cons instr.
Course Rules: Not open to students with cr in Kin 530, 532, or 536.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 336 Principles of Strength and Conditioning
3 cr. Undergraduate.
Basic principles necessary to understand the effects of exercise and conditioning on human physiology. Exercise techniques and measures
used to assess performance outcome.
Prerequisites: Kin 325(P), 330(P); or cons instr.
Course Rules: Counts as repeat of Kin 335 & 337.
Current Offerings: http://uwm.edu/schedule

KIN 350 Psychological Aspects of Sport and Exercise
3 cr. Undergraduate.
Examines relationships between psychological function and participation in sport and exercise. Topics include motivation, stress, group dynamics, and performance enhancement.
Prerequisites: Psych 101(P); satisfaction of GER Quant Lit Part B or cons
instr.
Course Rules: Not open to students with credit in Kin 550, 551, or 552.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 351 Sociological Aspects of Health and Human Movement
3 cr. Undergraduate.
Introduction to sociology of physical activity. Examination of diversity and social inequality as they relate to health and physical activity.
Prerequisites: Sociol 101(P); satisfaction of GER Quant Lit Part B or cons
instr.
Course Rules: Not open to students with credit in Kin 570.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 360 Motor Development Across the Lifespan
3 cr. Undergraduate.
Introduction to gross motor behavior development through the lifespan (neo-natal to senior adult). Growth, maturation, environmental influences, and developmental theories.
Prerequisites: admis to Kin major; or admis to Kin minor; or cons instr.
Course Rules: Not open to students with cr in Kin 561.
Current Offerings: http://uwm.edu/schedule

KIN 361 Principles of Motor Learning
3 cr. Undergraduate.
An overview of the principles of motor skill acquisition emphasizing variables related to the learner and the learning environment.
Prerequisites: admis to Kin major; or admis Kin minor and BioSci 202(P)
Course Rules: Not open to students with cr in Kin 561.
Current Offerings: http://uwm.edu/schedule

KIN 365 Health Aspects of Mind and Body Practices
3 cr. Undergraduate.
Exploration of the scientific research available on the effectiveness of common mind and body practices and the mechanisms through which
these practices affect health.
Prerequisites: BMS 260(C) or equiv.
Current Offerings: http://uwm.edu/schedule

KIN 368 Intervention Strategies in Complementary and Integrative Health Approaches
3 cr. Undergraduate.
Examination of the efficacy of commonly used strategies and therapies considered to be Complementary and Alternative Medicine.
Prerequisites: BMS 260(P) or equiv.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2008.
Current Offerings: http://uwm.edu/schedule

KIN 400 Ethics and Values in the Health and Fitness Professions
3 cr. Undergraduate.
Exploration of morality and ethics and their importance in the allied health professions.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

KIN 410 Medical Aspects of Illness Management
3 cr. Undergraduate.
Knowledge and techniques used in identification and management of common medical conditions and illnesses in physically active
populations.
Prerequisites: admis to Athletic Training major; Kin 316(P), 216(C), & 416(C), or cons instr.
Current Offerings: http://uwm.edu/schedule
KIN 412 Foundations of Injury Prevention & Performance
3 cr. Undergraduate.
The foundational knowledge, skills, and science that inform injury prevention, rehabilitation, and performance in sport and physical activity.
Prerequisites: Admis to athletic training prog; Kin 315(P), 320(P), & 416(C); or cons instr.
Course Rules: Counts as repeat of Kin(HMS) 290 w/same topic.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

KIN 413 Therapeutic Modalities in Athletic Training
3 cr. Undergraduate.
Introduction to tissue healing, pain control, indications, contraindications, protocols, and the body’s responses to various therapeutic modalities.
Prerequisites: admis to athletic training major; Kin 314(C), & 416(C); or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

KIN 414 Therapeutic Exercise and Rehabilitation Techniques in Athletic Training
3 cr. Undergraduate.
Introduction to the theory and practical aspects of therapeutic exercise and rehabilitation techniques used in the care of musculo-skeletal injuries.
Prerequisites: admis to athletic training prog; Kin 412(P) & 416(C); or cons instr.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

KIN 416 Competencies in Athletic Training
2 cr. Undergraduate.
Practice, testing, and practical field application of educational competencies and clinical proficiencies in athletic training.
Prerequisites: acceptance into student Athletic Training prog.
Course Rules: May be retaken to 10 cr max.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

KIN 430 Exercise Testing for Fitness Assessment and Exercise Prescription
3 cr. Undergraduate.
Methods for assessing physical fitness in various populations, guidelines for graded exercise testing and exercise prescription. Integrates lecture material with laboratory experience.
Prerequisites: Kin 330(P) or cons instr; current CPR/AED cert.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

KIN 480 Organization and Administration in the Exercise and Fitness Industry
3 cr. Undergraduate.
Study of the delivery of exercise services in relationship to organization and administration of programs with emphasis on promotions, budget, supervision, equipment and facilities.
Prerequisites: admis to Kin major; or Kin minor; or cons instr.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

KIN 481 Program Development and Evaluation in the Exercise and Fitness Industry
3 cr. Undergraduate.
Study of systematic program design and evaluation including systems approach, evaluation models, problem solving by objectives, management by objectives and accountability.
Prerequisites: Kin 330(P), 350(P), 351(P); or cons instr. Preference is given to students in the Health Promotion track.
Current Offerings: http://uwm.edu/schedule

KIN 482 Innovative Approaches to Health and Wellness Coaching
3 cr. Undergraduate.
Study of health and wellness coaching theory and practice related to health behavior change.
Prerequisites: sr standing or cons instr.
Course Rules: Counts as repeat of KIN 590 with same topic.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

KIN 489 Kinesiology Internship and Seminar
3-14 cr. Undergraduate.
Supervisory/clinical/research assignment in approved field instruction setting; seminar to monitor and assist with professional progress.
Prerequisites: Kin 303(P) and all undergrad coursework completed; or cons instr. See internship eligibility criteria in the Kinesiology section of the undergraduate catalog.
Course Rules: May be retaken to max of 14 cr. Not open for cr to students with cr in Spt&Rec 489(ER).
Current Offerings: http://uwm.edu/schedule

KIN 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

KIN 520 Neuromechanics Research Methods
3 cr. Undergraduate/Graduate.
Introduction to biomechanics and motor behavior experimental methods and instrumentation. Emphasis on understanding the research literature and research process, from study design to data analysis.
Prerequisites: jr st; grade of C or better in Kin 320(P), Math 117(P), Physics 110(R) or 120(R); or grad st or cons instr.
Last Taught: Fall 2016, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

KIN 522 Qualitative Analysis of Human Movement
3 cr. Undergraduate/Graduate.
Exploration of systematic qualitative analysis of human movement focusing on detecting and correcting faults in technique.
Prerequisites: jr st; grade of C or better in Kin 320(P); or grad st or cons instr.
Course Rules: Counts as repeat of Kin(HMS) 590 with same title.
Last Taught: Fall 2017, Fall 2015, Summer 2014, Summer 2010.
Current Offerings: http://uwm.edu/schedule

KIN 525 Exercise Testing for Fitness Assessment and Exercise Prescription
3 cr. Undergraduate/Graduate.
The foundational knowledge, skills, and science that inform injury prevention, rehabilitation, and performance in sport and physical activity.
Prerequisites: Admis to athletic training prog; Kin 315(P), 320(P), & 416(C); or cons instr.
Course Rules: Counts as repeat of Kin(HMS) 290 w/same topic.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
KIN 530 Advanced Exercise Physiology
3 cr. Undergraduate/Graduate.
Advanced study of the physiological responses to exercise and the adaptations to physical training.
Prerequisites: jr st; grade of C or better in Kin 330(P); Kinesiology major or intended major; or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

KIN 532 Electrocardiography Interpretation
3 cr. Undergraduate/Graduate.
In depth study of the 12 lead EKG and selected cardiovascular medications encountered in preventative and rehabilitative exercise programs.
Prerequisites: jr st; grade of C or better in Kin 330(P); 430(R); or grad st or cons instr.
Course Rules: Counts as repeat of Kin 590(HMS 590) with similar title.
Last Taught: Spring 2017, Fall 2015, Spring 2015, UWinteriM 2012.
Current Offerings: http://uwm.edu/schedule

KIN 550 Psychological Aspects of Human Movement
3 cr. Undergraduate/Graduate.
Study of the relationships between psychological factors and human physical activity. Introduction to research relevant to sport and exercise psychology.
Prerequisites: jr st; must have obtained a grade of C or better in Kin 350(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

KIN 551 Psychology of Injury/Illness/Disease: Implications/Strategies for Rehab
3 cr. Undergraduate/Graduate.
Explores the psychological aspects of health enhancement, disease prevention, and rehabilitation as well as the integration of behavioral and biomedical sciences in treating illness.
Prerequisites: Psych 101(P).
Course Rules: May be used by undergrads to repeat Kin 590 with same title.
Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

KIN 552 Psychology of Personal Excellence
3 cr. Undergraduate/Graduate.
Research on elite athletes, performing artists, and corporate executives is used to discuss characteristics of peak performance and identify strategies to facilitate personal excellence.
Prerequisites: jr st, grade of C or better in Kin 350(P); or grad st or cons instr.
Course Rules: Counts as repeat of Kin 590 w/same topic.
Current Offerings: http://uwm.edu/schedule

KIN 555 Exercise Psychology
3 cr. Undergraduate/Graduate.
Psychological antecedents and consequences of physical activity in relation to mental health and public health.
Prerequisites: jr st; Grade C or better in Kin 350(P) or cons instr.
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Spring 2009.
Current Offerings: http://uwm.edu/schedule

KIN 556 Multilevel Approaches to Changing Physical Activity and Eating Behaviors
3 cr. Undergraduate/Graduate.
An introduction to key theoretical and conceptual frameworks for understanding health-related behavior and evidence-based practical approaches for promoting behavior change.
Prerequisites: Admis to Kin major or Ath Trng major or Nutr major; Grade C or better in Kin 350(P); or grad st or cons instr.
Course Rules: Counts as repeat of Kin 590 w/same topic.
Current Offerings: http://uwm.edu/schedule

KIN 557 Sociological Aspects of Physical Activity
3 cr. Undergraduate/Graduate.
Relationships between sociological factors and human physical activity. Introduction to research relevant to the sociology of sport and other forms of physical activity.
Prerequisites: jr st; must have obtained a grade of C or better in Kin(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 558 Neuromechanics of Voluntary Movement
3 cr. Undergraduate/Graduate.
In-depth study of the 12 lead EKG and selected cardiovascular medications encountered in preventative and rehabilitative exercise programs.
Prerequisites: jr st; grade of C or better in Kin 330(P); 430(R); or grad st or cons instr.
Course Rules: Counts as repeat of Kin 590(HMS 590) with similar title.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

KIN 559 Body Image: Influences and Health-Related Implications
3 cr. Undergraduate/Graduate.
In-depth examination of the multidimensional body image construct: body image development, assessment, and modification; impact on health and behavior; body image in special populations.
Prerequisites: jr st; Psych 101(P).
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Fall 2013.
Current Offerings: http://uwm.edu/schedule

KIN 561 Advanced Exercise Physiology
3 cr. Undergraduate/Graduate.
Advanced study of the physiological responses to exercise and the adaptations to physical training.
Prerequisites: jr st; grade of C or better in Kin 330(P); Kinesiology major or intended major; or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

KIN 562 Electrocardiography Interpretation
3 cr. Undergraduate/Graduate.
In depth study of the 12 lead EKG and selected cardiovascular medications encountered in preventative and rehabilitative exercise programs.
Prerequisites: jr st; grade of C or better in Kin 330(P); 430(R); or grad st or cons instr.
Course Rules: Counts as repeat of Kin 590(HMS 590) with similar title.
Last Taught: Spring 2017, Fall 2015, Spring 2015, UWinteriM 2012.
Current Offerings: http://uwm.edu/schedule

KIN 563 Psychological Aspects of Human Movement
3 cr. Undergraduate/Graduate.
Study of the relationships between psychological factors and human physical activity. Introduction to research relevant to sport and exercise psychology.
Prerequisites: jr st; must have obtained a grade of C or better in Kin 350(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

KIN 564 Psychology of Personal Excellence
3 cr. Undergraduate/Graduate.
Research on elite athletes, performing artists, and corporate executives is used to discuss characteristics of peak performance and identify strategies to facilitate personal excellence.
Prerequisites: jr st, grade of C or better in Kin 350(P); or grad st or cons instr.
Course Rules: Counts as repeat of Kin 590 w/same topic.
Current Offerings: http://uwm.edu/schedule

KIN 565 Exercise Psychology
3 cr. Undergraduate/Graduate.
Psychological antecedents and consequences of physical activity in relation to mental health and public health.
Prerequisites: jr st; Grade C or better in Kin 350(P) or cons instr.
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Spring 2009.
Current Offerings: http://uwm.edu/schedule

KIN 570 Sociological Aspects of Physical Activity
3 cr. Undergraduate/Graduate.
Relationships between sociological factors and human physical activity. Introduction to research relevant to the sociology of sport and other forms of physical activity.
Prerequisites: jr st; must have obtained a grade of C or better in Kin(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 573 Body Image: Influences and Health-Related Implications
3 cr. Undergraduate/Graduate.
In-depth examination of the multidimensional body image construct: body image development, assessment, and modification; impact on health and behavior; body image in special populations.
Prerequisites: jr st; Psych 101(P).
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Fall 2013.
Current Offerings: http://uwm.edu/schedule

KIN 574 Obesity and Weight Management
3 cr. Undergraduate/Graduate.
Examination of the epidemiology of obesity, genetic and environmental contributors, body weight regulation, health and psychosocial consequences, and approaches to assessment, prevention, and treatment.
Prerequisites: jr st; grade of C or better in BMS 232(P) or Nutr 235(P).
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

KIN 575 The Social Construction of Obesity
3 cr. Undergraduate/Graduate.
Examines how obesity is socially constructed and how it shapes conceptions of fitness and physical activity.
Prerequisites: jr st; grade of C or better in Kin 351(P); or cons instr.
Course Rules: Counts as repeat of HMS 590 with same topic.
Last Taught: Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule
KIN 590 Current Topics in Human Kinetics:
1-3 cr. Undergraduate/Graduate.
The specific topic will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st, cons instr for grad cr.
Course Rules: May be retaken to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 643 Integument System
2 cr. Graduate.
Exploration of factors predisposing skin to breakdown; preventative measures, specific examination, and intervention techniques utilized in treating burns, wounds, and amputations.
Prerequisites: Grad st, admis to DPT program; or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 681 Fieldwork II: Basic Skills Experience
2 cr. Graduate.
Clinically based learning experience focusing on patient evaluation and treatment skills while fostering professional behavior through clinical mentorship.
Prerequisites: grad st, admis to DPT program; Kin 680(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 701 Seminar in Human Movement Sciences
1-3 cr. Graduate.
Research in the Human Movement Sciences subdisciplines including critical review of theories, perspectives and methods. Faculty, student presentations of current work.
Prerequisites: grad st
Course Rules: Retakable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

KIN 702 Statistical Analysis in the Health Sciences
3 cr. Graduate.
Univariate, bivariate, and multivariate analyses as they apply to health science research.
Prerequisites: grad st; intro level statistics course at U/G or G level.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 703 Survey of Research in the Human Movement Sciences
3 cr. Graduate.
Methods for multi-disciplinary human movement inquiry; problem/statistical design; critique of available literature; preliminary thesis/project design.
Prerequisites: grad st; Kin 702(P).
Current Offerings: http://uwm.edu/schedule

KIN 706 Research & Applied Statistics in Physical Therapy
3 cr. Graduate.
Specific quantitative research designs and statistics with an emphasis on clinical research; methods for critically evaluating research literature.
Prerequisites: grad st, admis to DPT program; or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 709 Research Practicum
3 cr. Graduate.
Development of strategies for evaluating and contributing to the evidence for physical therapy practice. Students will select and critically review evidence, develop, execute and present a case report to inform best practice.
Prerequisites: grad st; good standing in DPT program or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

KIN 710 Evidence Based Practice: Levels of Evidence
1 cr. Graduate.
Strategies for evaluating the evidence underlying physical therapy practice as a framework for creating and evaluating best practice decisions.
Prerequisites: grad st; admis to DPT Program or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 711 Evidence Based Practice: Interventions
1 cr. Graduate.
Focus on information access and retrieval from research literature used to inform physical therapy interventions for treatment of movement disorders.
Prerequisites: grad st; admis to DPT Program or cons instr.
Last Taught: Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

KIN 712 Evidence Based Practice: Tests & Measures
1 cr. Graduate.
Focus on the critical analysis of published clinical research related to physical therapy tests and measures.
Prerequisites: grad st; admis to DPT program or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 713 Professional Issues in Physical Therapy
1 cr. Graduate.
Strategies for growth & adaptation of physical therapy practice in the context of a changing health care environment.
Prerequisites: grad st; valid license to practice physical therapy or cons instr
Current Offerings: http://uwm.edu/schedule

KIN 714 Evidence for Practice I
3 cr. Graduate.
Provides clinicians with a rubric for searching & evaluating the published literature supporting physical therapy practice & informing best practice decisions.
Prerequisites: grad st; valid license to practice physical therapy or cons instr
Last Taught: Fall 2007.
Current Offerings: http://uwm.edu/schedule

KIN 715 Evidence for Practice II
3-6 cr. Graduate.
Synthesis of prior coursework in the development and presentation of a clinical practice decision supported with best evidence practices.
Prerequisites: grad st; valid license to practice physical therapy.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule
KIN 716 Seminar: The Culture of Evidence
1 cr. Graduate.
The role of evidence in physical therapy clinical decision making with application to current interventions.
Prerequisites: grad st; valid license to practice physical therapy or cons instr
Last Taught: Summer 2007.
Current Offerings: http://uwm.edu/schedule

KIN 717 Pharmacology In Rehabilitation
2 cr. Graduate.
Pharmacologic agents encountered in physical therapy rehabilitation settings focusing on pharmacodynamics, pharmacokinetics, biotransformation of drugs, and clinical application for relevant drug classifications.
Prerequisites: grad st, admis to DPT Program; or cons instr
Last Taught: Spring 2013, Spring 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

KIN 718 Clinical Radiology
1-2 cr. Graduate.
Medical diagnostics emphasizing indications & implications for imaging studies used to augment information obtained from the physical therapy examination.
Prerequisites: grad st, admis to DPT Program; or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

KIN 720 Biomechanics Research Methods
3 cr. Graduate.
Introduction to advanced biomechanics collection techniques. Course focuses on basic programming, data collection/analysis, and presentation skills.
Prerequisites: grad st; Kin 520(C); or cons instr
Course Rules: Counts as repeat of Kin 590 with same topic.
Last Taught: Fall 2016, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

KIN 725 Interdisciplinary Themes in Biomechanics
3 cr. Graduate.
Emphasis on biomechanical research themes of an interdisciplinary character. Readings drawn from primary research literature.
Prerequisites: grad st; Kin 520(P) or cons instr.
Last Taught: Fall 2014, Fall 2010, Spring 2006, Fall 2003.
Current Offerings: http://uwm.edu/schedule

KIN 732 Physical Activity and Health Across the Lifespan
3 cr. Graduate.
The role of physical activity in the prevention and treatment of various chronic conditions and diseases.
Prerequisites: grad st; Kin 330(P) w/ grade of C or better or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 733 Advanced Physiological Assessment
3 cr. Graduate.
Designed to introduce students to advanced physiological testing techniques. Assumes knowledge of basic exercise testing skills, exercise physiology principles.
Prerequisites: grad st; Kin 530(C) or cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

KIN 740 Musculoskeletal: Spine
3 cr. Graduate.
Evaluation and treatment techniques for spinal dysfunction and injury including mechanical assessment, postural training, therapeutic exercise, manual therapy, and modalities.
Prerequisites: grad st; admis to DPT Program; or cons instr
Current Offerings: http://uwm.edu/schedule

KIN 741 Musculoskeletal System: Lower Extremities
3 cr. Graduate.
Orthopedic physical therapy evaluation and treatment aspects of lower extremity musculoskeletal problems involving skeletal, connective tissue and muscular components.
Prerequisites: grad st; admis to DPT Program or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 742 Musculoskeletal: Upper Extremities
3 cr. Graduate.
Orthopedic physical therapy evaluation and treatment aspects of upper extremity musculoskeletal problems involving skeletal, connective tissue and muscular components.
Prerequisites: grad st; admis to DPT Program or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

KIN 743 Health Systems Review
2 cr. Graduate.
Provides systems overview of screening procedures necessary to provide a comprehensive physical therapy diagnosis with an emphasis on screening for referral.
Prerequisites: grad st; valid license to practice physical therapy or cons instr
Current Offerings: http://uwm.edu/schedule

KIN 745 Health Promotion/Wellness for Physical Therapy Practice
2 cr. Graduate.
Explores many aspects of health / wellness.
Prerequisites: grad st; good standing in DPT prog or cons instr
Current Offerings: http://uwm.edu/schedule

KIN 746 Case-based Clinical Decision Making
2 cr. Graduate.
Clinical decision-making in physical therapy including formulation of a diagnosis and plan of care supported by evidence from literature.
Prerequisites: grad st; admis to DPT Program or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 761 Concepts of Human Motor Control
3 cr. Graduate.
A systematic examination of neuromotor control mechanisms and critical review of research in human motor behavior focusing on variables limiting or facilitating performance and/or skill acquisition.
Prerequisites: grad st, Kin 561(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2012, Fall 2006.
Current Offerings: http://uwm.edu/schedule
KIN 752 Research Practicum in Motor Control
3 cr. Graduate.
Demonstration/participation laboratory focused on human motor control experimental design. Topics include sampling, subject protection, techniques for quantification of motor performance characteristics and neuromuscular correlates.
Prerequisites: grad st; Kin 561(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 763 Neural Control of Movement
3 cr. Graduate.
Fundamental concepts and current issues in how the brain and other neurological structures contribute to the control of movement.
Prerequisites: grad st, Kin 561(P) or cons instr.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

KIN 764 Neurophysiology of Human Movement
3 cr. Graduate.
A neurophysiologic perspective on key areas of human motor control.
Prerequisites: grad st, Kin 561(P) or cons instr.
Course Rules: Counts as repeat of Kin(HMS) 590 with same topic.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

KIN 765 Neuromuscular: Adult
4 cr. Graduate.
Application of motor control and learning, neuroanatomy, and neurophysiology to physical therapy examination and treatment of adults with neurological diagnosis.
Prerequisites: grad st, admis to DPT Program; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

KIN 766 Neuromuscular: Pediatric
4 cr. Graduate.
Pediatric onset diagnosis, related examination, interventions, clinical management, and legislation impacting pediatric physical therapy practice.
Prerequisites: grad st, admis to DPT Program or cons instr.
Current Offerings: http://uwm.edu/schedule

KIN 780 Clinical Teaching
2 cr. Graduate.
Exploration of patient education intervention focusing on patient adherence in the context of learning theory, adult learning, and learning domains.
Prerequisites: grad st, admis to DPT Program; or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

KIN 798 Independent Project
1-6 cr. Graduate.
Student research in consultation with and supervised by a graduate faculty member.
Prerequisites: grad st; cons instr
Course Rules: Retakable w/ chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

KIN 799 Independent Reading
1-3 cr. Graduate.
Independent study of a topic selected by the student in consultation with the supervising graduate faculty member.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated with change in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

KIN 830 Physiological Adaptations to Exercise
3 cr. Graduate.
Physiological factors related to performing physical activity and exercise on a chronic basis; various environmental influences on physical performance.
Prerequisites: grad st; a grade of C or better in Kin 530(P).
Last Taught: Fall 2013, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

KIN 850 Seminar in Psychological Aspects of Physical Activity:
3 cr. Graduate.
Advanced seminar on selected topics in the psychology of physical activity.
Prerequisites: grad st; Kin 550(P) or cons instr.
Course Rules: May be repeated with change in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

KIN 870 PT Clinical Internship III
8 cr. Graduate.
The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.
Prerequisites: DPT student in good st.
Current Offerings: http://uwm.edu/schedule

KIN 880 PT Clinical Internship I
8 cr. Graduate.
The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.
Prerequisites: DPT student in good st.
Current Offerings: http://uwm.edu/schedule

KIN 881 PT Clinical Internship II
8 cr. Graduate.
The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.
Prerequisites: DPT student in good st.
Current Offerings: http://uwm.edu/schedule

KIN 882 PT Clinical Internship III
8 cr. Graduate.
The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.
Prerequisites: Kin 881(P); DPT student in good st.
Current Offerings: http://uwm.edu/schedule
KIN 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

KIN 889 Professional Physical Therapy Credential Preparation
1 cr. Graduate.
Guidance in preparing for the Federation of State Boards of Physical Therapy licensing exam.
Prerequisites: DPT student in good standing or grad st & cons instr.
Course Rules: Course is offered in a distance learning format.
Current Offerings: http://uwm.edu/schedule

KIN 890 Capstone Project
1-6 cr. Graduate.
Preparation of a research project under the supervision of the student's major professor.
Prerequisites: grad st.
Course Rules: Not open to students selecting options A.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

KIN 891 Research Seminar
3 cr. Graduate.
Advanced seminar on the synthesis and critique of research literature within the student’s primary and secondary subdisciplines.
Prerequisites: grad st; completion of all or conc reg in remaining coursework for degree.
Course Rules: Not open to option A or C students.
Current Offerings: http://uwm.edu/schedule

KIN 895 Research and Thesis
1-6 cr. Graduate.
Preparation of a thesis under the direction of the student’s primary and secondary advisors.
Prerequisites: grad st; cons instr
Current Offerings: http://uwm.edu/schedule

KIN 909 Guided Teaching Experience in Health Sciences
3 cr. Graduate.
This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.
Prerequisites: grad st; Occ Thpy 900 (P); cons instr
Course Rules: Jointly offered w/ and counts as a repeat of BMS 909, HCA 909, OccThpy 909, and ComsDis 909.
Current Offerings: http://uwm.edu/schedule

KIN 910 Advanced Seminar in Health Sciences
1 cr. Graduate.
Faculty, graduate students, and invited guests will present their research and engage in discussion around themes of broad interest, e.g., public health.
Prerequisites: grad st
Course Rules: Retakable to 4 cr max.
Current Offerings: http://uwm.edu/schedule

KIN 930 Seminar in Exercise Physiology
1-3 cr. Graduate.
Evaluation of current research and methodology in exercise physiology.
Prerequisites: grad st; cons instr
Course Rules: Retakable to 9 cr max w/change in topic.
Current Offerings: http://uwm.edu/schedule

KIN 990 Research and Thesis
1-6 cr. Graduate.
Preparation of a thesis under the direction of the student's primary and secondary advisors.
Prerequisites: grad st.
Course Rules: May be repeated to max of 6 cr. Not open to students selecting options B or C.
Current Offerings: http://uwm.edu/schedule

KIN 991 Doctoral Dissertation
1-12 cr. Graduate.
Dissertation research
Prerequisites: grad st; adm to Ph.D. candidacy
Current Offerings: http://uwm.edu/schedule

KIN 999 Advanced Independent Study
1-6 cr. Graduate.
Independent study on topic selected by student and supervising graduate faculty member.
Prerequisites: grad st; cons instr
Current Offerings: http://uwm.edu/schedule

Sport & Recreation Courses
SPT&REC 100 Sports Officiating - Basketball
1 cr. Undergraduate.
Officiating, conducting and administering the sport of basketball.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

SPT&REC 104 Sports Officiating - Volleyball
1 cr. Undergraduate.
Officiating, conducting, and administering the sport of volleyball.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule
Kinesiology

SPT&REC 110 Physical Conditioning
1 cr. Undergraduate.
Theory & practice of physical conditioning.
Prerequisites: none.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 112 Yoga I
1 cr. Undergraduate.
Theory and practice of yoga.
Prerequisites: none. It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 113 Yoga II
1 cr. Undergraduate.
Theory and practice of yoga II.
Prerequisites: Spt&Rec 112(P). It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 114 Weight Training I
1 cr. Undergraduate.
Theory and practice of weight training.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 115 Weight Training II
1 cr. Undergraduate.
Theory and practice of weight training II.
Prerequisites: Spt&Rec 114(P).
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 116 Aerobic Dance
1 cr. Undergraduate.
Theory and practice of aerobic dance.
Prerequisites: none.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 117 Step Aerobics
1 cr. Undergraduate.
Theory and practice of Step Aerobics
Prerequisites: none.
Last Taught: Fall 2015, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 120 Swim I
1 cr. Undergraduate.
Theory and practice of swim I.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 121 Swim II
1 cr. Undergraduate.
Theory and practice of swim II.
Prerequisites: Spt&Rec 120(P) or swim one length of pool (25 yards) any stroke.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 123 Water Aerobics
1 cr. Undergraduate.
Theory and practice of aerobic water exercise.
Prerequisites: none.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 126 Skin & Scuba
1 cr. Undergraduate.
Theory and practice of skin and scuba.
Prerequisites: none.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 130 Ballroom Dance I
1 cr. Undergraduate.
Theory and practice of ballroom dancing.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 131 Ballroom Dance II
1 cr. Undergraduate.
Theory and practice of ballroom dancing.
Prerequisites: Spt&Rec 130(P).
Current Offerings: http://uwemu.edu/schedule

SPT&REC 156 Orienteering
1 cr. Undergraduate.
Theory and practice of orienteering.
Prerequisites: none.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 161 Bowling I
1 cr. Undergraduate.
Theory and practice of bowling
Prerequisites: none.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 162 Bowling II
1 cr. Undergraduate.
Theory and practice of bowling.
Prerequisites: Spt&Rec 161(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwemu.edu/schedule

SPT&REC 166 Golf
1 cr. Undergraduate.
Theory and practice of golf.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwemu.edu/schedule
SPT&REC 172 Tae Kwon-Do
1 cr. Undergraduate.
Theory and practice of tae kwon-do.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 173 Tae Kwon-Do II
1 cr. Undergraduate.
Theory and practice of tae kwon-do.
Prerequisites: Spt&Rec 172(P) or equiv.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 174 Self-Defense
1 cr. Undergraduate.
Theory and practice of self-defense.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 176 Basketball
1 cr. Undergraduate.
Theory and practice of basketball.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 179 Handball
1 cr. Undergraduate.
Theory and practice of handball.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 180 Racquetball I
1 cr. Undergraduate.
Theory and practice of racquetball.
Prerequisites: none.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

SPT&REC 181 Racquetball II
1 cr. Undergraduate.
Theory and practice of racquetball.
Prerequisites: Spt&Rec 180(P).
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

SPT&REC 182 Tennis I
1 cr. Undergraduate.
Theory and practice of tennis.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 183 Tennis II
1 cr. Undergraduate.
Theory and practice of tennis.
Prerequisites: Spt&Rec 182.
Current Offerings: http://uwm.edu/schedule

SPT&REC 185 Karate I
1 cr. Undergraduate.
Theory and practice of karate.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 186 Karate II
1 cr. Undergraduate.
Theory and practice of karate.
Prerequisites: Spt&Rec 170(P) or 185(P).
Current Offerings: http://uwm.edu/schedule

SPT&REC 187 Karate III
1 cr. Undergraduate.
Theory and practice of karate.
Prerequisites: Spt&Rec 171(P) or 186(P) or equiv.
Current Offerings: http://uwm.edu/schedule

SPT&REC 191 Volleyball
1 cr. Undergraduate.
Theory and practice of volleyball.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 192 Volleyball II
1 cr. Undergraduate.
Theory and practice of volleyball.
Prerequisites: Spt&Rec 178(P) or 191(P) or equiv.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

SPT&REC 289 General Recreation Activities:
1-3 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill development in general recreation and leisure activities. Credits for specific topics announced in Schedule of Classes.
Prerequisites: none, except as required for specific topic.
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

SPT&REC 290 Ad Hoc Course in Sport and Recreation:
1-3 cr. Undergraduate.
Topics of current interest in health, leisure, and recreation. May be retaken w/chg in topic. Special course fees may be required depending on course. Prereq: specified in semester Schedule whenever required for a topic
Prerequisites: May be retaken w/chg in topic.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
SPT&REC 291 Recreational Arts and Crafts:
1-2 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill
development in the area of Arts and Crafts. Credits for specific topics
announced in Schedule of Classes.
Prerequisites: none, except as required for specific topic.
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be
retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

SPT&REC 292 Social and Creative Dance:
1-2 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill
development in the area of Social and Creative Dance. Credits for specific
topics announced in Schedule of Classes.
Prerequisites: none, except as required for specific topic.
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be
retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 293 Martial Arts:
1-2 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill
development in martial arts. Credits for specific topics announced in
Schedule of Classes.
Prerequisites: none, except as required for specific topic.
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be
retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 294 Wilderness Adventure and Outdoor Activities:
1-2 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill
development in the areas of Wilderness Adventure and Outdoors
Activities. Credits for specific topics announced in Schedule of Classes.
Prerequisites: none, except as required for specific topic.
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be
retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPT&REC 295 Organized Sport:
1-2 cr. Undergraduate.
Topics of current interest focusing on life-long participation and skill
development in the area of sport. Credits for specific topics announced in
Schedule of Classes.
Prerequisites: none, except as required for specific topic.
Course Rules: Counts as repeat of Spt&Rec 290 with same topic. May be
retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NUTR 101 Introduction to the Nutrition Profession
1 cr. Undergraduate.
Introduction to the field of nutritional sciences and related professions.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NUTR 110 Introduction to Food Principles & Preparation
3 cr. Undergraduate.
Introduction to the physical and chemical properties of foods, food safety
and sanitation, food preparation procedures, and evaluation of prepared
food products in a lab setting.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NUTR 210 Food Science
3 cr. Undergraduate.
Continued study of the physical/chemical properties of foods; topics
include food composition and nutrition, food additives and regulations,
food safety and processing, food engineering.
Prerequisites: grade of C or better in Nutr 110(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NUTR 235 Introduction to Nutrition for the Health Professions
3 cr. Undergraduate.
A broad, science-based, practical knowledge of nutritional science and
metabolism to prepare for health and nutrition professions.
Prerequisites: grade of C or greater in Chem 100(P), Chem 101(P), or
Chem 102(P); & Bio Sci 202(P) or (C).
Course Rules: Counts as repeat of Kin 290 w/same topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
NUTR 240 Nutrition for Exercise and Wellness
3 cr. Undergraduate.
The role of nutrition in supporting health, wellness, and exercise on a national, state, community, and individual level.
Prerequisites: grade of C or better in Nutr 235(P) or BMS 232(P).
Course Rules: Counts as repeat of Kin 290 w/same topic.
Current Offerings: [Link to Schedule]

NUTR 241 Why We Eat What We Eat: An Ecological Approach
3 cr. Undergraduate.
Examination of food choice and eating behavior using a multilevel, social ecological perspective. Nutrition and health implications will be discussed.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: [Link to Schedule]

NUTR 245 Life Cycle Nutrition
3 cr. Undergraduate.
An exploration of physiological, sociological, and developmental factors that affect humans nutritional needs and recommendations throughout the life cycle.
Prerequisites: admis to Nutr major or Nutr minor.
Course Rules: Counts as a repeat of BMS 290 w/same topic.
Current Offerings: [Link to Schedule]

NUTR 290 Special Topics in Nutritional Sciences:
1-3 cr. Undergraduate.
Topics of current interest in nutritional sciences, food, and health. Special course fees may be required depending on course. May be retaken w/chg in topic.
Prerequisites: specified in sem schedule whenever required for a topic.
Last Taught: Spring 2018.
Current Offerings: [Link to Schedule]

NUTR 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in a UWM sponsored program before course work level, content, and credits are determined and/or in specifically prepared program course work.
Prerequisites: acceptance for Study Abroad Program.
Course Rules: May be retaken w/chg in topic.
Current Offerings: [Link to Schedule]

NUTR 350 Nutrition Communication and Education
3 cr. Undergraduate.
Approaches to nutrition and health communication and education; development of nutrition and health-related communication materials for target audiences.
Prerequisites: admis to Nutr major or Nutr minor.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [Link to Schedule]

NUTR 355 Modifying Nutrition and Eating Behavior
2 cr. Undergraduate.
Introduction to the basic components of nutritional assessment, behavior change theories and techniques, and educational processes for individuals and groups.
Prerequisites: admis to Nutr major or Nutr minor; grade of C or better in Nutr 245(P) or (C).
Last Taught: Spring 2018, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: [Link to Schedule]

NUTR 430 Advanced Nutrition and Metabolism
3 cr. Undergraduate/Graduate.
Study of nutrients and their specific functions in metabolic processes; integrating physiology, biochemistry, and nutrition.
Prerequisites: admis to Nutr major or Nutr minor; Chem 103(P) or Chem 501(P) or (C).
Current Offerings: [Link to Schedule]

NUTR 435 Nutrition and Disease
3 cr. Undergraduate.
Explores nutritional, physiological, and biochemical aspects of disease processes, and examines the role of food and nutrition in disease prevention, management, and treatment.
Prerequisites: admis to Nutr major or Nutr minor; grade of C or better in Nutr 350(P) & Nutr 355(P) or (C)
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: [Link to Schedule]

NUTR 470 Nutrition Internship/Project
4 cr. Undergraduate.
Supervised internship experience or advanced project(s) typically during the last semester of the undergraduate major.
Prerequisites: sr st & admis to Nutr major; grade of C or better in Nutr 355(P) & Nutr 435(P) or (C); cons internship coord.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [Link to Schedule]

NUTR 484 Community Nutrition Supervised Practice I
2 cr.
Guided by a preceptor, students are introduced to organizations delivering nutrition care in community settings; introductory skills for dissemination of nutrition information are practiced.
Prerequisites: Nutr 345(C) & 355(C); admis Coord Prog in Dietetics.
Current Offerings: [Link to Schedule]

NUTR 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakeable w/chg in topic.
Current Offerings: [Link to Schedule]

NUTR 550 Sports Nutrition
3 cr. Undergraduate/Graduate.
The integration and application of nutrition and exercise science principles to maximize health, fitness, and sport performance. Counts as repeat of BMS/Kin 590 w/same topic.
Prerequisites: jr st; grade of C or better in Nutr 235(P) or BMS 232(P).
Current Offerings: [Link to Schedule]
NUTR 555 Public Health Nutrition and Food Politics
3 cr. Undergraduate/Graduate.
This course highlights the role of food and nutrition in public health programs and services.
Prerequisites: jr st; grade of C or better in Nutr 235(P) or BMS 232(P), Nutr 240(P), & Bio Sci 203(P); or cons instr.
Course Rules: Counts as repeat of BMS(Kin) 290 w/same topic.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Carlynn Alt</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Marquette University</td>
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<tr>
<td>Monna Arvinen-Barrow</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Northampton, United Kingdom</td>
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<tr>
<td>Susan Cashin</td>
<td>Clinical Professor</td>
<td>PhD</td>
<td>Southern Illinois University</td>
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<tr>
<td>Stephan Cobb</td>
<td>Associate Professor</td>
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<td>Georgia State University</td>
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<tr>
<td>Ann Dietrich</td>
<td>Clinical Associate Professor</td>
<td>MS</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>Margaret Duncan</td>
<td>Professor</td>
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<td>Jennifer Earl-Boehm</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>The Pennsylvania State University</td>
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<td>Kyle Ebersole</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Nebraska</td>
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<tr>
<td>Chukuka Enwemeka</td>
<td>Distinguished Professor, Dean</td>
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<tr>
<td>Hayley Erickson</td>
<td>Clinical Assistant Professor</td>
<td>PhD, ATC</td>
<td>University of Toledo</td>
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<td>Christy Greenleaf</td>
<td>Professor</td>
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<td>University of North Carolina-Greensboro</td>
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<td>William Gregory</td>
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<td>Barbara Hart</td>
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<td>Cynthia Hasbrook</td>
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<td>Wendy Huddleston</td>
<td>Associate Professor</td>
<td>PhD, PT, OCS</td>
<td>Medical College of Wisconsin</td>
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<td>Kevin Keenan</td>
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<td>University of Colorado</td>
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<td>Lori Klos</td>
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<td>Cornell University</td>
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<td>Susan Kundrat</td>
<td>Clinical Assistant Professor</td>
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<td>Iowa State University</td>
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<tr>
<td>Renee Mazurek</td>
<td>Clinical Assistant Professor</td>
<td>PT, DPT</td>
<td>Arizona School of Health Sciences, A.T. Still University</td>
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<td>Barbara Meyer</td>
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<td>Michigan State University</td>
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<td>Nora Miller</td>
<td>Associate Researcher</td>
<td>MS</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Victoria Moerchen</td>
<td>Associate Professor</td>
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<td>University of Wisconsin-Madison</td>
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<td>Kristian O’Connor</td>
<td>Associate Professor</td>
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<td>University of Massachusetts</td>
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<td>John Ochsenwald</td>
<td>Clinical Assistant Professor</td>
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<td>University of Illinois, Champaign-Urbana</td>
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<td>Tracy Oles</td>
<td>Clinical Associate Professor</td>
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<td>University of Illinois</td>
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<tr>
<td>Renee Reckelberg</td>
<td>Athletic Trainer I</td>
<td>Unlisted</td>
<td>Eastern Michigan University</td>
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<tr>
<td>Michelle Rimer</td>
<td>Clinical Assistant Professor</td>
<td>MS, MPH, RD</td>
<td>University of Tennessee</td>
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<td>Erika Sander</td>
<td>Professor</td>
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<td>Ann Snyder</td>
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<td>Kathryn Zalewski</td>
<td>Associate Professor</td>
<td>PhD, PT</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Applied Gerontology, Graduate Certificate (College of Health Sciences, Department of Kinesiology)

The Graduate Certificate in Applied Gerontology is designed to provide students with the knowledge and skills needed to successfully pursue or advance careers within aging services organizations or academic research in aging.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline ([http://uwm.edu/graduateschool/program-deadlines](http://uwm.edu/graduateschool/program-deadlines)), call the Registrar’s Office at (414) 229-3800 or submit a contact form ([http://uwm.edu/registrar/contact-us](http://uwm.edu/registrar/contact-us)) online.

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

Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
Students wishing to earn a Graduate Certificate in Applied Gerontology must complete 18 graduate credit hours. No student may complete all 18 credits within a single school or college.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 760</td>
<td>Processes of Aging</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 851</td>
<td>Social Issue and Policy Analysis: (with the subtitle &quot;Age and Community: Policy to Practice&quot;)</td>
<td>3</td>
</tr>
</tbody>
</table>

Choice Core
Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 547</td>
<td>The Educational Dimensions of Practice with Older Adults</td>
<td></td>
</tr>
<tr>
<td>PSYCH 680</td>
<td>Psychology of Aging</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 685</td>
<td>Social Gerontology</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 791</td>
<td>Current Topics in Social Work: (Death and Dying – Aging section only)</td>
<td></td>
</tr>
<tr>
<td>THEATRE 699</td>
<td>Independent Study: (Creativity in Health Settings (3 credits))</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 6 credits 1

Total Credits 18

1 Students will work with the Certificate Coordinator to approve the selection 6 credits from the remaining Choice Core classes and additional electives, including a “Practicum” in the student’s home department or area of choice.

Integrative Portfolio
Students must complete an Integrative Portfolio as a final project under the guidance of the Certificate Coordinator and an assigned advisor. This Portfolio includes papers/materials from core courses and an introduction and reflective conclusion that integrates the key concepts from the interdisciplinary coursework and identifies potential impact on their future practice in research or aging services.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

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

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

To continue our leadership in Athletic Training education, we are revising our program to reflect the changed nature of professional practice demanding more interprofessional collaboration, a higher degree of autonomy requiring advanced development of clinical reasoning skills, and a skill set in evidence-based practice that allows graduates to actively engage in the rapidly changing science surrounding healthcare practice. Therefore, we have established a graduate, professional education program where students would earn a Master of Science in Athletic Training. The program was implemented during the 2015-2016 academic year, with the first students beginning the program for the summer session of 2017. Please refer to the program website for additional information and updates (www.atep.uwm.edu (http://www.atep.uwm.edu)).

The Integrative Health Care and Performance (IHCP) unit within the Department of Kinesiology at UWM offers the Master of Science in Athletic Training, a professional program that prepares students to become certified athletic trainers, and will be accredited by the Commission on the Accreditation of Athletic Training Education (CAATE). Athletic trainers are health care professionals who provide physically active people services such as injury/illness prevention, emergency care, clinical diagnosis, therapeutic intervention and rehabilitation of injuries and medical conditions. Students in the program will be trained in interprofessional practice, the scholarship of clinical practice, and in specialized clinical reasoning. The IHCP unit engages students in active learning experiences that prepare them for the dynamic nature of patient/client-centered care within an interprofessional environment.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Earned bachelor’s degree (any field) with cumulative 3.0 GPA
2. Completion of the following foundation courses with a cumulative GPA of 3.0:
   a. Human anatomy with lab
   b. Human physiology with lab
   c. Introduction to psychology
   d. Statistics
   e. Chemistry with lab
   f. Physics with lab
   g. Psychology of sport and exercise
   h. Exercise physiology
   i. Biomechanics
   j. Introduction to nutrition
   k. Motor learning
3. Completion of 20 hours of observation of athletic training practice.
4. Two letters of recommendation: One from an academic reference, one from an athletic trainer with whom the applicant completed observation hours.
5. Submission of GRE scores taken within last 5 years.

Credits and Courses

This is a 71-credit, two-year program conducted on a 12-month calendar. Students will matriculate at the start of the Summer term, and take courses for the following Fall, Spring, Summer, Fall, and Spring. Graduation will occur at the end of the Spring term.

Note: Course descriptions for PRPP (Physical Rehabilitation and Performance Psychology) courses will be available sometime in Spring 2016. Students can enroll in PRPP courses beginning Summer 2017.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRPP 521</td>
<td>Pathoetiology of Tissue Injury</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 701</td>
<td>Introduction to Clinical Education and Professional Development</td>
<td>1</td>
</tr>
<tr>
<td>PRPP 702</td>
<td>Ethics in Healthcare</td>
<td>1</td>
</tr>
<tr>
<td>PRPP 703</td>
<td>Foundations of Interprofessional Practice</td>
<td>1</td>
</tr>
<tr>
<td>PRPP 704</td>
<td>Professionalism and Leadership in Healthcare</td>
<td>1</td>
</tr>
<tr>
<td>PRPP 705</td>
<td>Foundations of Clinical Research</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 708</td>
<td>Clinical Gait Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 710</td>
<td>Prevention &amp; Care of Emergent Medical Conditions in Athletic Training</td>
<td>4</td>
</tr>
<tr>
<td>PRPP 725</td>
<td>Gross Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 744</td>
<td>Healthcare Systems and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 747</td>
<td>Clinical Exam and Diagnosis of the Lower Extremity in Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 748</td>
<td>Clinical Exam and Diagnosis of the Head and Spine in Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 749</td>
<td>Clinical Exam and Diagnosis of Upper Extremity in Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 753</td>
<td>Medical Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 757</td>
<td>Foundations of Therapeutic Interventions in Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 758</td>
<td>Physical Agents</td>
<td>2</td>
</tr>
<tr>
<td>PRPP 759</td>
<td>Therapeutic Interventions for the Upper Extremity</td>
<td>2</td>
</tr>
<tr>
<td>PRPP 785</td>
<td>Clinical Education in Athletic Training: I</td>
<td>1</td>
</tr>
<tr>
<td>PRPP 786</td>
<td>Clinical Education in Athletic Training: II</td>
<td>2</td>
</tr>
<tr>
<td>PRPP 787</td>
<td>Clinical Education in Athletic Training: III</td>
<td>2</td>
</tr>
<tr>
<td>PRPP 788</td>
<td>Clinical Education in Athletic Training: IV</td>
<td>3</td>
</tr>
</tbody>
</table>

Select the following for 4-8 credits per semester to equal 12 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRPP 883</td>
<td>Capstone Clinical Education in Athletic Training</td>
</tr>
</tbody>
</table>

Kinesiology Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 550</td>
<td>Psychological Aspects of Human Movement</td>
</tr>
</tbody>
</table>
Program Requirements

Major Professor as Advisor
The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors upon acceptance into the program.

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

Complementary and Integrative Health Approaches, Undergraduate Certificate

Complementary and Integrative Health Approaches (CIH) are important components of the American health care system and supports a focus on health and wellness. The CIH approaches advocate for care that is patient-centered, healing oriented, emphasize the therapeutic relationship, and use therapeutic approaches originating from conventional and alternative medicine. Health and wellness, mind and body, and natural products are key areas of focus within this area of study. Health care professionals and future health care professionals, wellness and fitness oriented professionals and students, and interested individuals benefit from competency in understanding and critically evaluating the various practices considered as complementary and alternative or integrative.

The focus of this certificate program is an educational foundation regarding the broad use of complementary and integrative practices. Through coursework, learners explore and evaluate the most common forms of CIH, the history and cultural applications of CIH practices, evidence-based and ethical use of CIH, and the critical evaluation of CIH information and research. Completion provides basic scientific knowledge and skills to critically evaluate the current and future use of integrative health care.

Note: Students must declare their intent to pursue this academic certificate. Professional advisors provide information and guidance to help students make informed educational decisions. Students are encouraged to meet with an advisor at least once each semester. To schedule an advising appointment, call the Office of Student Affairs appointment line at (414) 229-2758.

Requirements
To earn the academic certificate, a minimum GPA of 2.5 is required in the 15 credits.

Course offerings are subject to change.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Integrative Health Approaches</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 3 credits

Total Credits 71

Electives
Select 3 credits (see below)

Total Credits 15

1 Online offering available.

Healthy Aging, Undergraduate Certificate

The Undergraduate Certificate in Healthy Aging is an interdisciplinary program housed in the Center for Aging and Translational Research. The certificate is designed for students:
1. To acquire basic foundational knowledge in the processes of aging, issues regarding aging, and the challenges of older adulthood.
2. To understand the interdisciplinary and integrative nature of gerontology.
3. To have practical experiences with older adults.

The certificate is open to all undergraduate students as well as non-degree seeking students with a bachelor's degree. Undergraduate students may earn the certificate in conjunction with any major. Those with a bachelor's degree may choose to complete the program to enhance their job performance or increase their marketability in the field of aging. Certificate completion will be posted on a student's official transcript and an official paper certificate will be sent to the student.

Requirements
The student must maintain a 2.5 GPA for the 18 credits that meet certificate requirements.

The program consists of 18 credits including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK 300</td>
<td>Aged to Perfection: Introduction to the Study of Aging</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credits from core curriculum courses in the following areas:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Biological Aging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychological Aging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Dimensions of Aging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Correlates/Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in aging-related courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Practicum, Field Placement, Internship, or Service Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in a course working primarily with older adults or caregivers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

1. No more than three credits can be taken in one area. See the program coordinator for a current list.
2. Select courses after consulting with the academic advisor for their program and the certificate coordinator. A maximum of 3 credits of approved independent study may be counted as an elective.

For additional information, contact the program coordinator in the Center for Aging and Translational Research, catr@uwm.edu, (414) 229-7313.

Kinesiology, BS
Are you fascinated by the science of human movement? Then kinesiology might be the major for you. You’ll join an exciting department where nationally known faculty are working to deepen our understanding of physical activity, and you’ll delve into topics such as anatomy and physiology, biomechanics, psychosocial aspects of sport/exercise, motor development and more. You’ll graduate ready to apply your knowledge and skills in professional settings ranging from health care to sports to industry.

Requirements
Requirements for the BS Kinesiology program can be found on the BS Kinesiology webpage (http://uwm.edu/healthsciences/academics/bachelors-kinesiology).

Note: Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change. Please contact the Office of Student Affairs, NWQB 6425, (414) 229-2758, for the most current information.

Course of Study
The undergraduate program in the Department of Kinesiology is a four-year curriculum leading to a Bachelor of Science degree in Kinesiology. The program has two tracks, Health Promotion and Exercise Science. Both tracks consist of foundational studies, lab classes, and professional preparation leading to the completion of 120 credits for the Bachelor of Science degree.

Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change as of the publication date of this catalog. Please contact the Office of Student Affairs, NWQB Building B, 6th Floor, 414-229-2758, for the most current information.

Eligibility
Students interested in Kinesiology will remain eligible for continuation in the degree by:

1. Completion of UWM’s General Education Requirements (p. 33) (students are encouraged to use CHS courses when appropriate);
2. Maintenance of a UWM cumulative grade point average over 2.5;
3. Completion of the Kinesiology Foundation Courses with a grade of C or better. Students may not repeat more than four (4) of the Kinesiology Foundation Courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 200</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
<td>4</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 235</td>
<td>Introduction to Nutrition for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Spt&amp;Rec 110-192: Physical Activity Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spt&amp;Rec 292-298: Physical Activity Requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Admission
In order to move on to the Kinesiology Core courses, the following admission criteria must be met:

1. 2.5 cumulative GPA;
2. Minimum grade of C in the following foundations courses:
3. Completion of UWM’s General Education Requirements (p. 33); and
4. Completion of online application for admission to the Kinesiology major.

When the criteria are met and application accepted, the student will be admitted to the Kinesiology program.

Note: Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change. Please contact the Office of Student Affairs, NWQB 6425, (414) 229-2758, for the most current information.

Retention
Retention in the program and graduation are dependent upon:

1. Maintenance of a 2.5 cumulative UWM GPA.
2. Completion of all courses in one of the following track curriculum with an average GPA of 2.75 in the Kinesiology Core. Students may not repeat more than three (3) of the Kinesiology Core courses.
3. Completion of all required courses, correlates/internship, and elective credits (120 minimum degree credits).

Degree Requirements
Kinesiology students are required to complete the (a) University Core, (b) Kinesiology Core, and (c) Health Promotion Exercise Science track requirements. The Health Promotion requirements include completion of the Professional Skills Development coursework and Internship. The Exercise Science track includes completion of Correlate Coursework. Students in both tracks also must complete elective coursework to fulfill the 120 credit requirement for the BS Kinesiology degree.

Internship (Health Promotion track only)
Internship must be completed in the last semester and is 12 credits. Advanced preparation is required for internship and students should be in contact with the internship coordinator as soon as possible. See the BS Kinesiology webpage (http://uwm.edu/healthsciences/academics/bachelors-kinesiology) for additional information regarding internship.

Internship Eligibility
The following requirements must be met before enrolling in KIN 489:

1. Completion of all other curriculum requirements;
2. A 2.5 or greater cumulative GPA;
3. A 2.75 or greater cumulative GPA for all Kinesiology Core requirements:
Kinesiology, Minor

The Minor in Kinesiology affords students opportunities to study the multidisciplinary science of human movement.

Students who complete the Minor in Kinesiology will be able to:

1. Describe, from a multidisciplinary approach, the value and benefits of all forms of physical activity and a healthy lifestyle; and
2. Summarize and apply theoretical and scientific knowledge from multiple Kinesiology sub-disciplines such as: biomechanics, exercise physiology, motor behavior, sociological and psychological aspects of physical activity, health, and sport.

Requirements

To declare the Minor in Kinesiology, students must:

1. Have completed a minimum of 24 credits;
2. Have a minimum UWM GPA of 2.5; and
3. Complete the online declaration form.

The Minor in Kinesiology involves completing 18 credits of kinesiology coursework. Students must:

Select at least 12 credits from the following: ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 200</td>
<td>Introduction to Kinesiology</td>
<td>12</td>
</tr>
<tr>
<td>KIN 230</td>
<td>Health Aspects of Exercise and Nutrition</td>
<td></td>
</tr>
<tr>
<td>KIN 320</td>
<td>Biomechanics</td>
<td></td>
</tr>
<tr>
<td>KIN 330</td>
<td>Exercise Physiology</td>
<td></td>
</tr>
<tr>
<td>KIN 350</td>
<td>Psychological Aspects of Sport and Exercise</td>
<td></td>
</tr>
<tr>
<td>KIN 351</td>
<td>Sociological Aspects of Health and Human Movement</td>
<td></td>
</tr>
<tr>
<td>KIN 360</td>
<td>Motor Development Across the Lifespan</td>
<td></td>
</tr>
<tr>
<td>KIN 361</td>
<td>Principles of Motor Learning</td>
<td></td>
</tr>
</tbody>
</table>

¹ Declaration of minor is a prerequisite for each of these courses.

To be awarded the Minor in Kinesiology, students will need to earn a minimum GPA of 2.5 in the 18 credits in the Kinesiology minor. Students must satisfy published prerequisites of any course.

Academic advisors within the College of Health Science Office of Student Affairs will assist students enrolled in the program with the development
of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at 414-229-2758.

Kinesiology, MS

"Kinesiology is an academic discipline which involves the study of physical activity and its impact on health, society, and quality of life." — American Kinesiology Association

The Master of Science degree in Kinesiology provides students with an understanding of how physical activity (including sport and exercise) impact and are affected by various physiological, mechanical, and psychosocial aspects of human health and performance.

The degree offers focused study in Exercise and Nutrition in Health and Disease, Integrative Human Performance, or Neuromechanics and prepares students for careers in higher-education, research, and practice through didactic coursework in the areas of Biomechanics, Exercise Physiology, Motor Behavior, Rehabilitation, Sport & Exercise Psychology, and Psychosocial Aspects of Health Behavior.

Knowledge and skills in research-related and discipline-specific coursework helps prepare students to address complex real-world health and performance issues and utilize critical thinking skills to generate knowledge and make sound decisions to support continued personal and professional development.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. A bachelor’s degree in kinesiology, biology, nursing, occupational therapy, physical education, psychology, sociology, physical therapy, zoology or equivalent preparation.
2. Students must have successfully (B or better) completed undergraduate coursework (or equivalent) in statistics, human anatomy (with lab), and human physiology (with lab), as well as the coursework below corresponding to the student’s chosen area of study:
   - Exercise and Nutrition in Health and Disease
     - Exercise physiology or medical physiology
     - Exercise testing and prescription or performance assessment
     - Psychological or sociological aspects of human behavior (or equivalent)
     - Introduction to nutrition or eating behavior
   - Integrative Human Performance
     - Exercise physiology or medical physiology
     - Exercise testing and prescription or performance assessment
     - Sport & exercise psychology
   - Neuromechanics
     - Biomechanics or physics
     - Motor behavior or a psychology course including human movement

4. Two letters of recommendation to the Department’s Kinesiology Graduate Program Director from persons familiar with applicant’s academic ability and achievement.

For more specific information about departmental requirements for admission, please visit the Kinesiology Department website (http://uwm.edu/healthsciences/academics/masters-kinesiology/#admission).

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters.

The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. Applicants with undergraduate majors in areas other than those noted in this section may be admitted on a similar basis.

Applicants should visit the UWM M.S. Kinesiology website (http://uwm.edu/healthsciences/academics/masters-kinesiology) for additional information and deadlines.

Credits and Courses

The minimum degree requirement is 33 graduate credits for Option A and B. Option A and B students must take 6 credits of core courses and 9 credits from their primary focus area:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 702</td>
<td>Statistical Analysis in the Health Sciences</td>
<td>6</td>
</tr>
<tr>
<td>KIN 703</td>
<td>Survey of Research in the Human Movement Sciences or PRPP 705</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Foundations of Clinical Research</td>
<td></td>
</tr>
</tbody>
</table>

Primary Focus Area | 9
Total Credits | 15

Students will also be required to take a minimum of 12 credits (thesis) or 15 credits (capstone project) of electives that will serve as specialization courses. Elective courses may be selected from inside and outside the Department of Kinesiology.

Option A: Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core and Primary Focus Area courses (see table above)</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Specialization Coursework</td>
<td>12</td>
</tr>
<tr>
<td>KIN 895</td>
<td>Research and Thesis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>33</td>
</tr>
</tbody>
</table>

Students prepare a research thesis, which will earn 6 credits within the required 33 graduate credit minimum. Each student is responsible for identifying a major professor and a thesis committee before completing 12 graduate credits. The thesis committee should consist of a minimum of three graduates Faculty: the major professor from the student’s primary area of study, a departmental faculty member from the primary area of study, and one other departmental or other UWM graduate faculty member. The thesis committee approves a program of studies designed to lead the student into the thesis research area. To make subsequent
changes, the student must petition the departmental Graduate Faculty Committee prior to any intended change.

### Option B: Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core and Primary Focus Area courses (see table above)</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Specialization Coursework</td>
<td>15</td>
</tr>
<tr>
<td>KIN 890</td>
<td>Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>33</td>
</tr>
</tbody>
</table>

### Program Requirements

#### Major Professor as Advisor
The Graduate School requires that each student have a major professor to advise, supervise and approve the program of study before registering for courses. Each student will be assigned an advisor upon admission based on the declared area of concentration.

#### Comprehensive Examination
The student must pass comprehensive oral examination in defense of the completed project.

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

### Kinesiology, PhD

"Kinesiology is an academic discipline which involves the study of physical activity and its impact on health, society, and quality of life." — American Kinesiology Association

With a focus on the interrelationships between movement and health, the foundation of the Ph.D. in Kinesiology curriculum provides students with both the classroom and experiential training that is critical to becoming a successful scholar. The Kinesiology doctoral program includes balanced and comprehensive doctoral-level training in Kinesiology theory, research methodology, and statistics that culminates in an innovative and publishable dissertation reflecting an integration of scientific discovery and application. The program focuses on developing scholars in areas of emphasis that align with faculty expertise.

The Kinesiology doctoral program provides students with excellent research training for academic and professional careers that require theory-driven basic and/or applied research skills, such as faculty and/or administrative positions within colleges and universities; careers in nonprofit service and research organizations; policy-making positions in government agencies and institutions; and careers in for-profit businesses.

### Admission Requirements

#### Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

#### Admission
In addition to meeting the UWM Graduate School's criteria for admission, applicants to the PhD program in Kinesiology must also:

1. Possess, or be in the process of completing, a MS degree in Kinesiology or closely related field. In exceptional cases, applicants with a BS degree in Kinesiology or closely related field who demonstrate significant involvement in research and exceptional academic achievement may be considered for admission.
2. Submit a curriculum vitae that includes all academic institutions attended, degrees achieved, and academic and professional accomplishments (e.g., publications, presentations).
3. Submit verbal, quantitative, and analytical writing scores from the GRE (http://uwm.edu/graduateschool/admission/#gre) General Test taken within five years of the application date.
4. Demonstrate, through submission of official transcripts from all institutions attended, a minimum grade point average of 3.0 for the highest degree program in which the student enrolled and/or completed. Particular attention will be paid to grades in classes that are relevant to the selected area of emphasis for the PhD Kinesiology program. Applicants currently enrolled in a baccalaureate program must demonstrate a minimum undergraduate grade point average of 3.0.
5. Solicit two confidential letters of recommendation from previous university instructors and/or faculty advisors. These letters should be sent directly from the letter writer to the program director.
6. Submit a writing sample from a research project in which the applicant was involved. Acceptable writing samples include, but are not limited to, submitted/published manuscripts, submitted/published abstracts, review of literature, report of a completed research project, research proposal, etc.
7. Submit a letter of intent that addresses the applicant's research interests (including intended area of emphasis and advisor at UWM) conducted research, ongoing research and career goals.

The final admission decision is contingent upon the availability of a faculty member to serve as primary advisor for the student.

### Credits and Courses

The program requires students to complete a minimum of 58 graduate credits beyond the master's degree, or a minimum of 79 credits beyond the bachelor's degree. The curriculum is comprised of five main components:

1. Core curriculum
2. Area of emphasis curriculum
3. Cognate
4. Electives
5. Dissertation

All coursework will be decided upon and approved by the student and their PhD committee.

Credit distribution will be as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Curriculum</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Area of Emphasis Curriculum</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Cognate</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Dissertation</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>58</td>
</tr>
</tbody>
</table>
Students entering with a BS:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Curriculum</td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Area of Emphasis Curriculum</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Cognate</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Dissertation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>79</td>
</tr>
</tbody>
</table>

All credits listed are minimum required credits for the program.

**Core Curriculum**

The core curriculum focuses on developing the knowledge and skills necessary for students to conduct sound and innovative research, and to develop as a scholar. Coursework included in the core curriculum focuses on research methodology and design, statistical analysis, ethical conduct of research, professional development, and teaching and learning coursework.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seminar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 910</td>
<td>Advanced Seminar in Health Sciences</td>
<td>1</td>
</tr>
<tr>
<td>Teaching and Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 909</td>
<td>Guided Teaching Experience in Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Research Methodology and Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 990</td>
<td>Research and Dissertation</td>
<td>1-6</td>
</tr>
<tr>
<td>PRPP 705</td>
<td>Foundations of Clinical Research</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select a minimum of 6 credits from possible eligible courses which include, but are not limited to the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIN 702</td>
<td>Statistical Analysis in the Health Sciences</td>
<td>6</td>
</tr>
<tr>
<td>SOC WRK 961</td>
<td>Introduction to Statistical Methods</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 962</td>
<td>Applied Multiple Regression Analysis</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 963</td>
<td>Measurement Methods and Related</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 964</td>
<td>Advanced Statistical Methods</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18-23</td>
</tr>
</tbody>
</table>

**Program Requirements**

**Major Professor as Advisor**

The Graduate School requires that each doctoral student have a major professor to advise, supervise and approve the program of study before registering for courses. The major professor also serves as a research mentor, the chair of the dissertation committee, and chair of the committee hearing the dissertation defense. Each student will be assigned an advisor upon admission based on area of research interest. The major professor must have graduate faculty status.

**Area of Emphasis Curriculum**

Students will propose an area of emphasis in consultation with their advisor and take an array of courses, offered within and outside the Department of Kinesiology, that explore the main dimensions of that area. The academic area of specialization within Kinesiology will be identified prior to the student's entry into the program. The student's doctoral committee will be charged with reviewing their program of study to ensure that sufficient doctoral level coursework will be/have been completed.

**Cognate**

The cognate area, within or outside Kinesiology, will complement the student's area of concentration (e.g., Area of emphasis: Exercise Physiology, Cognate: Nutrition), and will be identified by the end of the first year of coursework. Coursework in the cognate may include classes offered within and/or outside the Department of Kinesiology. As with the area of emphasis curriculum, the student's doctoral committee will be charged with reviewing the program of study to ensure that sufficient doctoral level coursework will be/have been completed.

**Electives**

Students will have the opportunity to broaden their knowledge by taking supplemental courses in teaching and learning, grantsmanship, manuscript preparation, professional development, and other areas that complement their program of study.

**Dissertation**

The completion of a dissertation, consisting of original research, will be the final step in earning a Ph.D. in Kinesiology from the University of Wisconsin-Milwaukee. In addition to formal coursework, students are required to successfully complete a preliminary examination, a dissertation proposal, and a dissertation defense. It is expected that this degree will take an average of four to five years for a full-time student to successfully complete.

**Preliminary Exam**

After students successfully complete the required credits of didactic coursework in the Core, Area of Emphasis, and Cognate areas, the student will sit for the preliminary examination. The preliminary examination will assess the level of knowledge and understanding related to coursework taken in the area of emphasis, cognate area, as well as research methodology and statistics. Specifically, the purpose of the preliminary exam is to provide the student with an opportunity to demonstrate their current knowledge, and ability to apply and integrate knowledge gained in classes with the current body of literature and in their own research. The preliminary examination process must be successfully completed before a student can formally become a dissertator, and must be completed within five years of initial doctoral program enrollment.

The preliminary exam format will consist of the following:

**Area of Emphasis Examination**

One written exam where the student will not have access to notes or other materials. The exam will require students to demonstrate their understanding of fundamental ideas, theories, and/or concepts within their area of emphasis.

**Cognate Examination**

One written exam where the student will not have access to notes or other materials. The exam will require students to demonstrate their understanding of fundamental ideas, theories, and/or concepts within their area of emphasis.

**Integrative Examination**

The student will prepare a grant proposal (format approved by doctoral committee) and orally defend their grant proposal to their doctoral
committee. This written and oral exam will focus on a topic related to their area of emphasis, but not the student’s primary dissertation research question. The topic must be agreed upon by the student and their committee. The integrative examination will provide the student an opportunity to demonstrate their ability to analyze, evaluate, and hypothesize on research and theory pertaining to a selected area of Kinesiology.

**Appeals Process**

Any appeal (grades, preliminary exam decision, dissertation proposal decision, etc.) initiated by the student must follow the appropriate steps for appeals (http://uwm.edu/graduateschool/appeals-exceptions) as outlined by the Graduate School.

**The Dissertation Process**

**Dissertation Proposal and Proposal Hearing**

Upon successful completion of the preliminary examinations, the student submits a written dissertation proposal to the doctoral committee and conducts a public oral presentation of the proposed research. Notification of the oral presentation will be publicly posted ten business days (two calendar weeks) prior to the presentation. The committee then votes on whether to allow the student to move forward with the plan presented. Committee approval of the dissertation proposal establishes agreement on the plan and confirms that the student has adequate preparation to complete the research.

Per UWM Graduate School guidelines (http://uwm.edu/graduateschool/doctoral-milestones), “Any significant changes to the dissertation as presented in the proposal hearing must be approved. A new proposal and proposal hearing are required.”

**Dissertation**

The dissertation is a major piece of original research representing a substantial contribution to the existing body of knowledge. The student’s major professor and doctoral committee provide guidance in completing the dissertation. The final written document may follow a traditional or manuscript format.

- For dissertations following the traditional dissertation format, the formatting of the dissertation document will follow guidelines (http://uwm.edu/graduateschool/thesis-dissertation-formatting) published by the UWM Graduate School and consist of an introduction, review of literature, method, results and discussion sections.
- For dissertations following the manuscript format, the dissertation document will follow guidelines (http://uwm.edu/graduateschool/thesis-dissertation-formatting) published by the UWM Graduate School and consist of an introduction to the content area and line of research, two to four manuscripts, a summary of the impact of the current work on the existing body of literature, and an overall conclusion.

**Dissertation Defense**

The student must present and defend the dissertation in a public forum. Successful completion of the dissertation defense will require approval by a majority of doctoral committee members.

**Time Limit**

In accordance with Graduate School policy, all degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

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**Nutritional Sciences, BS (Department of Kinesiology)**

The Nutritional Sciences Program is a 120-credit interdisciplinary undergraduate major administered jointly by the Biomedical Sciences and Kinesiology Departments in the College of Health Sciences. The Nutritional Sciences program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Courses</strong></td>
<td>12</td>
</tr>
<tr>
<td></td>
<td><strong>Foundation Courses (includes advanced General Education Requirements)</strong></td>
<td>42-55</td>
</tr>
<tr>
<td></td>
<td><strong>Nutrition Core</strong></td>
<td>13</td>
</tr>
<tr>
<td></td>
<td><strong>Advanced Nutrition Core</strong></td>
<td>24</td>
</tr>
<tr>
<td></td>
<td><strong>Additional Requirements</strong></td>
<td>16-29</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>120</td>
</tr>
</tbody>
</table>

**Admission and Prerequisites**

All students are eligible to pursue general education requirements and foundations courses associated with the curriculum as long as they meet the necessary prerequisites for each course. The UWM General Education Requirements (p. 33) are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>General Education Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Competency Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Oral and Written Communication (OWC) Part A &amp; B</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy (QL) Part A &amp; B</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Foreign Language</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Distribution Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Cultural Diversity</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>42-55</td>
</tr>
</tbody>
</table>

1 Required courses in the curriculum satisfy these General Education Requirements

Students are considered “Nutritional Sciences-Intended” until they have completed their General Education Requirements, Foundations courses and the Nutrition Core. To be eligible for admission to the major and enrollment in the advanced core nutrition courses, students must have a UWM cumulative grade point average (GPA) of 2.50 or higher, and the following prerequisite courses must be completed with a minimum grade of C:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
</tbody>
</table>
BIO SCI 203 Anatomy and Physiology II 4
KIN 270 Statistics in the Health Professions: Theory and Practice 3

Select one of the following: 3
PSYCH 101 Introduction to Psychology
SOCIOL 101 Introduction to Sociology
ANTHRO 102 Introduction to Anthropology: Culture and Society
COMMUN 103 Public Speaking 3

Chemistry Sequence (choose one):
Chemistry sequence culminating in CHEM 103 (42 total Foundations credits)
Chemistry sequence with 3 credits of Organic Chemistry and culminating in CHEM 501 (50 total Foundations credits)
Chemistry sequence with 8 credits of Organic Chemistry and culminating in CHEM 501 (55 Foundations credits)

Nutrition Core (minimum GPA of 2.75 is required in this category for admission) 13
NUTR 241 Why We Eat What We Eat: An Ecological Approach 3
NUTR 101 Introduction to the Nutrition Profession 1
NUTR 110 Introduction to Food Principles & Preparation 3
NUTR 235 Introduction to Nutrition for the Health Professions 3
NUTR 240 Nutrition for Exercise and Wellness 3

No more than four of the Foundations courses listed above may repeated.

Advancement to the Major
The application to the major is made available online on the program website during the months of September and February. Applications are due October 1st for spring admission and March 1st for summer/fall admission. The application may be submitted while courses above are in progress as long as they will be completed prior to the effective admission term. Applicants are notified of admission status via email from the program director within four weeks of the application deadline.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 210</td>
<td>Food Science</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 245</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 350</td>
<td>Nutrition Communication and Education</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 355</td>
<td>Modifying Nutrition and Eating Behavior</td>
<td>2</td>
</tr>
<tr>
<td>NUTR 430</td>
<td>Advanced Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 435</td>
<td>Nutrition and Disease</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 470</td>
<td>Nutrition Internship/Project</td>
<td>4</td>
</tr>
<tr>
<td>NUTR or KIN course 500 level or above</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 credits must be at the 300 level or above) 16-29

Students with Chemistry sequence culminating in CHEM 103 must complete 29 elective credits

Graduation Requirements
Once admitted to the program, students must earn a minimum GPA of 2.75 in all advanced core nutrition courses, and no more than three of the Core and Advanced Core courses may be repeated. Students must complete a minimum of 120 credits with a minimum cumulative GPA of 2.5 to be eligible for graduation.

Honors in the Major
Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM following advancement to a Health Sciences major.

Honors in the College of Health Sciences
Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Nutritional Sciences, Minor (Department of Kinesiology)
The Minor in Nutritional Sciences provides students the opportunity to study food and nutrients, their physiological functions, normal nutritional requirements, and the myriad of influences on food choice and eating behavior throughout the life cycle. The required science foundation courses provide the necessary background of chemistry and biological sciences to understand the physiological basis of nutrition, as a multidisciplinary science with relevance to health.

Upon completion of the Minor in Nutritional Sciences, students will be able to:
• Describe the relationship between food and nutrients in human health and well-being;
• Discuss the function, physiology, dietary sources, and symptoms and consequences of deficiency and toxicity for macro- and micronutrients;
• Apply nutrition principles to the human life cycle: nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth and development, maturation, and aging;
• Examine the multiple levels of influence (i.e., intrapersonal, interpersonal, institutional/organizational, community, political, and cultural) that shape food choice and eating behavior;
• Apply scientific principles of basic food chemistry in examining food's physical aspects and preparation; and
• Apply biological and biochemical principles to the understanding of the human digestion and metabolism of macro- and micronutrients.

Admission and Requirements

Students may declare their intent to pursue the Nutritional Sciences Minor on the program’s website. Students must satisfy the following requirements to be eligible to declare the minor:

• 2.5 Cumulative GPA
• Minimum grade of C in the following 15 credits of Core Nutrition Courses (or In Progress):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 110</td>
<td>Introduction to Food Principles &amp; Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 235</td>
<td>Introduction to Nutrition for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>or BMS 232</td>
<td>Introduction to Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 240</td>
<td>Nutrition for Exercise and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 245</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Once the Admission requirements listed above are met (15 credits), students may progress and choose the 6 credits of Advanced Coursework that best meets their goals for completion of the Minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Coursework</td>
<td>Select 6 credits from the following: ¹</td>
<td>6</td>
</tr>
<tr>
<td>NUTR 355</td>
<td>Modifying Nutrition and Eating Behavior</td>
<td></td>
</tr>
<tr>
<td>NUTR 210</td>
<td>Food Science</td>
<td></td>
</tr>
<tr>
<td>NUTR 350</td>
<td>Nutrition Communication and Education</td>
<td></td>
</tr>
<tr>
<td>NUTR 430</td>
<td>Advanced Nutrition and Metabolism</td>
<td></td>
</tr>
<tr>
<td>NUTR 435</td>
<td>Nutrition and Disease</td>
<td></td>
</tr>
<tr>
<td>NUTR 550</td>
<td>Sports Nutrition</td>
<td></td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
<td></td>
</tr>
<tr>
<td>KIN 574</td>
<td>Obesity and Weight Management</td>
<td></td>
</tr>
</tbody>
</table>

¹ This list of courses may be modified by the Nutritional Sciences Program Committee as additional courses are developed.

To be awarded the Minor in Nutritional Sciences, students will need to maintain a GPA of 2.50 with no grade lower than a C in the 21 credits of coursework.

Students concurrently enrolled in a bachelor’s degree program successfully completing the program requirements will be awarded the Minor in Nutritional Sciences at the time of graduation.

Academic advisors within the College of Health Sciences Office of Student Affairs will assist students enrolled in the program with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at (414) 229-2758.
OCCUPATIONAL SCIENCE AND TECHNOLOGY

The Department of Occupational Science and Technology (OST) offers a 120-credit undergraduate program in the area of occupational studies (OS). The OS undergraduate degree offers a flexible educational path. Combined with a blend of elective courses, a degree in the area of occupational studies may prepare the student to work in different health and human service settings. The OS degree combined with the Therapeutic Recreation (TR) courses offers a viable career path. There is a steady need for Recreational Therapists to assist in the care and prevention of age-related illness and injuries and provide opportunities for individuals with disabilities. It is recommended that students pursue employment under a Certified Therapeutic Recreation Specialist (CTRS) to be eligible to sit for the National Council for Therapeutic Recreation Certification (NCTRC) exam to obtain the professional credential. Additionally, graduates will be particularly well-prepared for further graduate study in occupational therapy and other disability-related disciplines. The efficient degree program is in concert with the University mission “to further academic and professional opportunities at all levels for women, minority, part-time, and financially or educationally disadvantaged students.” Students have the flexibility to complete the revised curriculum in a reasonable (4 year) period of time.

The Department of Occupational Science and Technology offers a Master of Science in Occupational Therapy that prepares students to become occupational therapists. During the program, students engage in graduate-level instruction embedded in the theory, research, and clinical underpinnings required to become evidence-based occupational therapy practitioners. Students may select a thesis option or project option in pursuing this degree. Students who are interested can choose to combine elective courses from the OT program with other courses on campus to receive the transcript-designated concentration in assistive technology and accessible design and/or ergonomics. (Note: The ergonomics concentration is being revised; admission to the program is temporarily suspended.) Graduates of the program are eligible to take the occupational therapist certification examination offered by the National Board for Certification in Occupational Therapy. The Master of Science in Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) (http://www.acoteonline.org) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE’s telephone number c/o AOTA is (301) 652-AOTA (2682).

Programs

- Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) (p. 898)
- Occupational Studies, BS (p. 899)
- Occupational Therapy, MS (p. 907)
- Occupational Therapy, MS: Assistive Technology and Accessible Design (p. 903)
- Occupational Therapy, MS: Ergonomics (p. 905)
- Therapeutic Recreation, Undergraduate Certificate (p. 908)
- Trauma Informed Care, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) (p. 909)

Graduate Admission Requirements

Each graduate program has admission requirements in addition to the general Graduate School admission requirements. Refer to Graduate Admission and Costs (p. 17) for the graduate school’s admission requirements, and to the specific program for the program’s admission requirements.

Undergraduate Admission

Students interested in the OS undergraduate program are encouraged to contact the College of Health Sciences Office of Student Affairs. Students with bachelor’s degrees in other areas are welcome and encouraged to contact Student Affairs for a credit evaluation.

Students Entering the OS Program Fall 2017

Admission to the Major

Students will automatically be admitted to the major after completion of 57 credits. Within those 57 credits, students must have a B- or better in BIO SCI 202, OCCTHPY 151 and OCCTHPY 201, PSYCH 101, and THERREC 202. At the time of admission to the major, students must declare at least one track that they will complete.

Upon admission to the occupational studies major, students must maintain a 2.75 cumulative GPA. Failure to attain a semester GPA of 2.75 or higher will result in the student being placed on academic probation for one semester. A second semester GPA below 2.75 will result in dismissal from the program. Any given course may be repeated only one time.

Occupational Studies Courses

OCCTHPY 151 Foundations of Scientific Inquiry for Occupational Studies
3 cr. Undergraduate.
Foundation of basic inquiry skills needed to pursue a career in health sciences. Attention is paid to observation, collection, visualization and reporting skills.
Prerequisites: none.
Course Rules: Counts as repeat of OccThpy 290 w/same topic.
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwarm.edu/schedule

OCCTHPY 201 Introduction to Occupational Science and Technology
3 cr. Undergraduate.
Survey of professions related to disability, occupation, assistive and quality of life technologies and rehabilitation.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwarm.edu/schedule

OCCTHPY 220 Gizmos and Gadgets: Introduction to Assistive Technology
1-3 cr. Undergraduate.
Survey of historical, current, and emerging assistive technology devices, services, and rehabilitation and disability through use of internet resources, print resources and guest speakers.
Prerequisites: none.
Course Rules: Counts as repeat of OccThpy 290 w/same topic. May be retaken to 3 cr max.
Current Offerings: http://uwarm.edu/schedule
OCCTHPY 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.
Prerequisites: soph st or cons instr.
Course Rules: BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

OCCTHPY 250 Concepts of Time and Occupation
3 cr. Undergraduate.
Examines the science and application of time related to human occupation, activity, and health through interactive and hands-on learning activities, videos and guest speakers.
Prerequisites: none.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 260 Enhancing Health Through Activity, Occupation and Technology I
3 cr. Undergraduate.
Introduction to the role of activities, occupations, and technology in the promotion of good health and as interventions for individuals, groups and communities.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 280 Applied Human Anatomy for Health Professionals
3 cr. Undergraduate.
In-depth study of the human body with emphasis on applications pertinent to health professionals.
Prerequisites: Bio Sci 203(P) or cons instr.
Course Rules: Special course fee assessed for lab materials.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 290 Topics in Occupational Therapy
1-3 cr. Undergraduate.
Topics of current interest in occupational therapy. See Schedule of Classes for course offerings. May be retaken with change in topic to max of 9 cr. Prereq: none. Additional prereqs will be listed in the semester Timetable as appropriate.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 297 Study Abroad - Occupational Therapy
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2008.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 301 Applied Neuroscience for Health Professionals
3 cr. Undergraduate.
A functional approach to the human nervous system and neuropathology. Orientation to evaluation and treatment for neurological disorders.
Prerequisites: admis to OccThpy prog; KIN(HMS) 325(P) or (C), or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 305 Applied Psychopathology
3 cr. Undergraduate.
Survey of psychopathology, psychosocial rehabilitative treatment theory and practice used in mental health settings. Lec, Dis.
Prerequisites: Acceptance in OccThpy prog; or cons instr.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 308 Musculoskeletal Pathology and Occupational Function
2 cr. Undergraduate.
The origin, nature, and course of musculoskeletal disorders are described and analyzed within the context of occupational performance and occupational biomechanics.
Prerequisites: admis to OccThpy prog.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 315 Group Process in Rehabilitation
3 cr. Undergraduate.
Study of, and participation in, group process specific to rehabilitation programs. Experimental.
Prerequisites: jr st in OccThpy or TherRec, OccThpy 305(P) or TherRec 308(P), or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 320 Introduction to Ergonomics for Healthcare Professionals
3 cr. Undergraduate.
Introduction to ergonomics and work-related musculoskeletal disorders with special focus on work and settings relevant to Occupational Therapy and other healthcare professions.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 322 Program Development in Rehabilitation
2 cr. Undergraduate.
Study of the development process for programs in rehabilitation. Lecture, Discussion, Experiential learning.
Prerequisites: jr st in OccThpy prog or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 323 Program Management in Rehabilitation
2 cr. Undergraduate.
Study of the management of programs in rehabilitation.
Prerequisites: sr st in OccThpy prog or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule
OCCTHPY 326 Occupational Therapy in Pediatrics I
3 cr. Undergraduate.
Evaluation of occupational performance and planning for treatment for the birth to 21 y/o population with occupational dysfunction. Includes experiential component.
Prerequisites: jr st in OccThpy; OccThpy 301(P).
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 328 Occupational Therapy in Physical Rehabilitation I
3 cr. Undergraduate.
Application of biomechanical principles to OT evaluation and treatment. Lec, lab.
Prerequisites: Acceptance in OccThpy prog.
Last Taught: Spring 2015, Spring 2014, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 329 Occupational Therapy in Gerontology
3 cr. Undergraduate/Graduate.
In-depth study of occupational therapy principles and practice in working with the elderly in institutions and the community.
Prerequisites: jr st in OccThpy Prog.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 330 Foundations of Professional Practice in Occupational Therapy
1-3 cr. Undergraduate.
Foundation for successful professional practice in the field of occupational therapy. Students will apply knowledge of core professional documents, ethics and leadership. Specific cr announced in Schedule of Classes each time course is offered.
Prerequisites: jr st in OccThpys Prog.
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 340 Evidenced for Practice I: Applications of Biostatistics
3 cr. Undergraduate.
Applications of instrumentation, biostatistics and epidemiology in occupational studies. Emphasizes research design, measurement and interpretation of statistical results.
Prerequisites: jr st, OccThpy 151(P), Kin 270(P).
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 341 Evidence for Practice II: Appraising Evidence
3 cr. Undergraduate.
Critically examines current research evidence in occupational studies and health care. Emphasizes spectrum of quantitative and qualitative approaches. Prereq: OccThpy 340(C).
Prerequisites:
Current Offerings: http://uwm.edu/schedule

OCCTHPY 350 Professional Development Seminar I
1 cr. Undergraduate.
Integrate academic knowledge with observation skills; refine skills through client observation; complete facility tours and paired visits to OT-related sites.
Prerequisites: Acceptance in OccThpy prog; or cons instr.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 356 Enhancing Health Through Activity, Occupation and Technology II
3 cr. Undergraduate.
Integrate understanding of relationship of occupation and health, occupation-based intervention and technology. Reflect on personal occupations and design interventions for individuals, groups, communities.
Prerequisites: Acceptance in OccThpy prog. or cons instr.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 390 Professional Development Seminar II
1 cr. Undergraduate.
Integrate OT academic knowledge with observation and intervention skills; refine skills through client interaction; complete 1st Level I fieldwork
Prerequisites: jr st in OccThpy prog; OccThpy 350(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 401 Overview of Medical Conditions
3 cr. Undergraduate.
Overview of common impairments and related diagnoses such as spinal cord injury, head injury, burns, cognitive disorders and psychiatric disorders with implications for OT practice.
Prerequisites: TherRec 202(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 405 Occupational Therapy in Physical Rehabilitation II
3 cr. Undergraduate.
Neurodevelopmental evaluation and treatment procedures for persons with central nervous system damage. Lec, lab.
Prerequisites: sr st in OccThpy prog; OccThpy 308(P); OccThpy 401(P).
Current Offerings: http://uwm.edu/schedule

OCCTHPY 411 Occupational Therapy and Psychosocial Rehabilitation
3 cr. Undergraduate.
Advanced clinical techniques in psychosocial occupational therapy emphasizing social skills training, life coping skills, OT evaluations and intervention planning in rehabilitation and community settings.
Prerequisites: sr st in OccThpy prog; OccThpy 305(P) & 315(P).
Current Offerings: http://uwm.edu/schedule

OCCTHPY 420 Principles of Human Factors and Usability
3 cr. Undergraduate.
Introduction to principles of human factors, interaction, and usability as they pertain to the design of consumer devices and assistive technologies.
Prerequisites: jr st; OccThpy 220(P); or cons instr.
Course Rules: Counts as repeat of OccThpy 590 w/same topic.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 425 Occupational Therapy Senior Seminar
2 cr. Undergraduate.
Summary and analysis of occupational therapy services primarily in physical dysfunction treatment situations. 4-week mini-course.
Prerequisites: 2 sem sr st in OccThpy prog.
Current Offerings: http://uwm.edu/schedule
OCCTHPY 426 Occupational Therapy in Pediatrics II
3 cr. Undergraduate.
Evaluation of occupational performance and treatment implementation for the birth to 21 y/o population with occupational dysfunction. Lec and lab.
Prerequisites: sr st in OccThpy prog; OccThpy 326(P).
Current Offerings: http://uwm.edu/schedule

OCCTHPY 427 Essentials of Splinting
3 cr. Undergraduate/Graduate.
Evaluation and splint fabrication of upper and lower extremity and trunk. Hands-on lab experience in splint design using various patterns, applications, and materials.
Prerequisites: Bio Sci 203(P); Hum Kin 320(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 430 Foundations of Professional Practice in Occupational Therapy III
1-3 cr. Undergraduate.
Fieldwork, lecture, discussions on professional topics; OT in health, education, and community settings. Specific cr announced in Schedule of Classes each time course is offered.
Prerequisites: OccThpy 330(P) & 331(P).
Course Rules: May not be retaken for cr.
Last Taught: Fall 2005, Fall 2004, Fall 2003, Fall 2002.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 460 Professional Development Seminar III
3 cr. Undergraduate.
Integrate OT academic knowledge with observation and interaction skills; develop clinical techniques and analyze reflect on skills; complete 2nd Level I fieldwork
Prerequisites: sr st in OccThpy prog; OccThpy 390(P); or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 490 Professional Development Seminar IV
1 cr. Undergraduate.
Integrate OT academic knowledge with interaction skills; develop clinical techniques and analyze/reflect on skills; work on preparation for Level II fieldwork.
Prerequisites: sr st in OccThpy prog; OccThpy 460(P).
Current Offerings: http://uwm.edu/schedule

OCCTHPY 497 Study Abroad - Occupational Therapy:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UW sponsored program before course work level, content and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 505 Work and Disability
3 cr. Undergraduate.
Constructs related to employment of people with disabilities (e.g. legislation; theories; interventions; accommodations; job placement, development, support) taught through experiential learning and case studies.
Prerequisites: jr st, or cons instr.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 519 Therapeutic Communication
3 cr. Undergraduate/Graduate.
Development of therapeutic communication skills necessary for all occupational therapy practice settings.
Prerequisites: sr st or grad st in OT prog; or cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 521 Essentials of Assistive and Rehabilitation Technology
3 cr. Undergraduate.
Fundamentals and applications of assistive and rehabilitation technology for the home, school, hospital, work place and community.
Prerequisites: jr. st, OccThpy 220(P) or cons instr.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 530 Contemporary Issues and Professional Preparation in Occupational Studies
3 cr. Undergraduate.
Exploration of contemporary issues and careers in the general areas of occupational studies. Attention is on preparation for entry level employment and/or graduate education.
Prerequisites: sr st, OccThpy 401(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 540 Evidence for Practice I
3 cr. Undergraduate/Graduate.
Introduction to research methods and measurement in occupational therapy with a focus on the scientific process and evidence.
Prerequisites: sr st or grad st in OT prog.
Last Taught: Summer 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 541 Evidence for Practice III: Creating Evidence
3 cr. Undergraduate/Graduate.
Seminar to study the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.
Prerequisites: sr st in OccThpy & OccThpy 341(P); or grad st in OccThpy; or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 542 Evidence for Practice II
3 cr. Undergraduate/Graduate.
Study of the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.
Prerequisites: sr st or grad st in OT, or cons instr.
Current Offerings: http://uwm.edu/schedule
OCCTHPY 550 Upper Extremity Evaluation and Treatment in Hand Therapy
3 cr. Graduate.
Evaluation and treatment of the upper extremity. Techniques of patient evaluation, pertinent anatomy, and recovery.
Prerequisites: grad st in OccThpy prog or DPT prog; or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 590 Topics in Occupational Therapy:
1-3 cr. Undergraduate/Graduate.
Topics of current interest in O.T. see Schedule of Classes for course offerings.
Prerequisites: jr st in OccThpy prog or cons instr.
Course Rules: May be retaken with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 593 Introduction to Biomedical and Rehabilitation Instrumentation
3 cr. Undergraduate/Graduate.
Familiarizes students with medical instrumentation in post acute care settings. Basic electrical, electronic and mechanical terminologies.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 595 Vision I: Introduction to Low Vision & Visual Impairment
3 cr. Undergraduate/Graduate.
Introduces student to visual impairment including blindness and ‘low vision’. Structure and function of the visual system and most common types of pathology.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 596 Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention
3 cr. Undergraduate/Graduate.
Functional implications of visual system pathology; focus on practical aspects of adapting to visual impairment, low vision evaluation and access to service/resources.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 599 Independent Study
1-6 cr. Undergraduate.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken for degree cr.
Last Taught: Fall 2017, Spring 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 610 Advances in Occupational Science
3 cr. Undergraduate/Graduate.
Explores origins and recent developments in occupational science. Examines the multidimensional nature of occupation; the dynamics of person, environment, occupation interaction; applications to practice.
Prerequisites: sr st in Baccalaureate OccThpy prog or grad st.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 620 Introduction to Assistive and Rehabilitation Technology
3 cr. Undergraduate/Graduate.
Principles of assistive and rehabilitation technology application and foundation skills for professionals working with people with disabilities to evaluate products and strategies for their use.
Prerequisites: jr st; OccThpy 401(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 625 Design and Disability
3 cr. Undergraduate/Graduate.
Universal design principles/theories related to creating access for individuals with disabilities. Enables professionals to evaluate and provide recommendations for product and environment universal design.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2017, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities
3 cr. Undergraduate/Graduate.
Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.
Prerequisites: jr st.
Course Rules: ExcEduc 634, OccThpy 634, & ComSDis 634 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 701 Advanced Measurement and Instrumentation in Health Care
3 cr. Graduate.
Reviews and critiques measurement theories and instruments used by health related researchers and professionals. Includes traditional, outcome and contemporary methods differing from classical psychometric theory.
Prerequisites: grad st.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 703 Applied Neuroscience
3 cr. Graduate.
Emphasizes neurophysiology, neuroanatomy and disorders of the nervous system. Focus on relationship between structure and function of the nervous system as applied to OT.
Prerequisites: grad st in OT prog
Current Offerings: http://uwm.edu/schedule

OCCTHPY 704 Musculoskeletal Analysis and Occupational Function
3 cr. Graduate.
The origin, nature, and course of musculoskeletal and neurological disorders and their relationship to clinical biomechanics and occupational performance.
Prerequisites: grad st in OT prog
Current Offerings: http://uwm.edu/schedule
OCCTHPY 705 Occupational Therapy in Physical Rehabilitation I
3 cr. Graduate.
Development of assessment skills for common medical conditions that occupational therapists encounter in physical rehabilitation settings.
Prerequisites: grad st in OT program
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 706 Occupational Therapy in Physical Rehabilitation II
2-6 cr. Graduate.
Clinical application of occupational therapy interventions in a variety of rehabilitation settings.
Prerequisites: grad st in OT program
Last Taught: Spring 2018, Summer 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 707 Professional Development Seminar I
1 cr. Graduate.
Exploration of social and cultural factors that impact occupational therapy practice; includes 30 hours of service learning.
Prerequisites: grad st; Admins. to MSOT program
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 708 Professional Development Seminar II
1 cr. Graduate.
Development of skills in critical evaluation of OT practice through integration of academic knowledge and 40 hours of Level I fieldwork experience.
Prerequisites: grad st; Admins. to MSOT program, B- or better in OccThpy 707, or cons. instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 709 Professional Development Seminar III
1 cr. Graduate.
Critical evaluation of OT practice and preparation for Level II fieldwork through integration of academic knowledge and 40 hour Level I fieldwork experience.
Prerequisites: grad st; Admins to MSOT program, B- or better in OccThpy 708, or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 710 Community Models of Occupational Therapy Practice
2 cr. Graduate.
Evaluation and application of occupational therapy knowledge to a wide array of community settings.
Prerequisites: grad st in OccThpy prgrm or cons instr
Current Offerings: http://uwm.edu/schedule

OCCTHPY 711 Professional Leadership for Occupational Therapists
3 cr. Graduate.
Critical analysis of trends, practice issues and strategies in the field of occupational therapy.
Prerequisites: grad st in OT program
Last Taught: Summer 2017, Summer 2016, Summer 2015.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 718 Occupational Therapy in Acute Care
1-3 cr. Graduate.
This course provides a foundation for entry-level OT practitioners in the acute care setting with an awareness of common medical conditions and their treatment implications.
Prerequisites: grad st in OccThpy progmr or cons instr,
Course Rules: retakeable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 719 Occupational Therapy in Psychosocial Practice
3 cr. Graduate.
The nature of human occupation, areas of occupation, performance skills, and performance patterns within varied contexts for persons with behavioral and psychiatric disorders.
Prerequisites: grad st in OT program
Current Offerings: http://uwm.edu/schedule

OCCTHPY 720 Application of Occupational Science and Occupational Therapy Theory
3 cr. Graduate.
Critical analysis of occupational science and occupational therapy theories as they relate to practice issues, strategies, and research.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 721 Foundations of Professional Practice in Occupational Therapy
2 cr. Graduate.
Foundations for successful professional practice in the field of occupational therapy.
Prerequisites: grad st in OT program
Last Taught: Fall 2017, Fall 2016, Summer 2016, Summer 2015.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 724 Advanced Design and Disability
3 cr. Graduate.
Accessible and universal design principles, theories and practices are taught enabling evaluation and design of products and environments for people with and without disabilities.
Prerequisites: Grad standing required; One class in assistive technology prior to this course recommended.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 725 Occupational Therapy Field Service I
6 cr. Graduate.
Provides students with opportunity to apply knowledge and practice in clinical setting through participation in therapy under supervision; integrates academic with professional knowledge.
Prerequisites: grad st; successful completion of required prof. entry courses
Current Offerings: http://uwm.edu/schedule

OCCTHPY 735 Occupational Therapy Field Service II
6 cr. Graduate.
Provides students with opportunity to apply knowledge and practice in clinical setting through participation in therapy under supervision; development of advanced knowledge and skills.
Prerequisites: grad st; OccThpy 725(C).
Current Offerings: http://uwm.edu/schedule
OCCTHPY 740 Occupational Therapy with Children and Families
4 cr. Graduate.
Examines current practices and future trends for evaluation and treatment of occupational performance between birth and 21 years of age within family and community contexts.
Prerequisites: grad st.
Last Taught: Spring 2018, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 741 Research Seminar
1 cr. Graduate.
Scholarly discussion forum for graduate students completing their thesis/project.
Prerequisites: grad st; OccThpy 890(C) or 990(C) or cons instr.
Last Taught: Spring 2014, Fall 2013, Spring 2011, Summer 2010.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 743 Advances in Child and Family Centered Occupational Therapy
2-3 cr. Graduate.
Exploration of child development and family systems from an ecological perspective. Current evaluation and intervention strategies are studied through contemporary trends and evidence for practice.
Prerequisites: OccThpy 740 or cons of instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 744 Advanced Occupational Therapy for Aging Adults
1-3 cr. Graduate.
The aging of America has wide-ranging implications for occupational therapy. This course provides students with knowledge and skills to evaluate and work with older adults.
Prerequisites: grad st in OccThpy prog or cons instr.
Course Rules: retakable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 745 Occupational Therapy Field Service III
1-6 cr. Graduate.
Additional, optional field placement beyond ACOTE requirements to accommodate special interests in treatment, health care systems and other professional settings.
Prerequisites: grad st; OccThpy 735 (C)
Current Offerings: http://uwm.edu/schedule

OCCTHPY 750 Computer Applications in Occupational Therapy Practice
3 cr. Graduate.
Exploration of the current and future uses of computer technology in the field of occupational therapy. Completion of a student-designed software application.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 760 Assistive and Rehabilitation Technology
3 cr. Graduate.
Surveys the use of assistive technology devices and applications for people with motor, sensory, and cognitive impairments.
Prerequisites: grad st; college-level computer course or equiv or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 770 Assessment in Assistive Technology and Accessible Design
3 cr. Graduate.
Background theory, principles of selection, application in practice, and procedures for applying assistive technology (AT) and universal design (UD) assessment and instrumentation.
Prerequisites: grad st; OccThpy 620(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 774 Trauma Counseling I: Theory and Research
3 cr. Graduate.
Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.
Prerequisites: grad st
Course Rules: Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 775 Trauma Counseling II: Diagnosis and Treatment
3 cr. Graduate.
Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.
Prerequisites: grad st; Couns 774, Nurs 774, OccThpy 774 or Soc Wrk 774(P), or cons instr
Course Rules: Couns 775, Nurs 775, OccThpy 775, and Soc Wrk 775 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 777 Fieldwork in Assistive Technology
1-6 cr. Graduate.
Provides students with a school- or clinic-based experience in the delivery of assistive technology services.
Prerequisites: grad st & cons instr.
Course Rules: ExcEduc 777 & OccThpy 777 are jointly offered; they count as repeats of one another. May be retaken for 9 cr max.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2008.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 780 Physical Agents in Rehabilitation
1-3 cr. Graduate.
Application of physical agents to restore functional abilities in a rehabilitation setting; includes review of research literature and competency testing.
Prerequisites: Grad st in OccThpy prog or cons instr.
Course Rules: retakable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 786 Applied Biostatistics in Ergonomics
3 cr. Graduate.
Statistical methods used in ergonomic studies to analyze, summarize, and report measurements and data. 2 hr lec & 2 hr lab/week.
Prerequisites: grad st; Ind Eng 580; a course in statistics or cons instr.
Course Rules: Jointly offered with & counts as repeat of Ind Eng 786.
Current Offerings: http://uwm.edu/schedule
OCCTHPY 788 Legal Issues and Regulatory Agencies in Ergonomics
1 cr. Graduate.
Understanding of ergonomic regulations, regulatory sets, and agencies' and workers' compensations laws.
Prerequisites: grad st; Ind Eng 580(P); a course in statistics or cons instr.
Course Rules: Jointly offered with & counts as repeat of Ind Eng 788.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 790 Design Project
2-3 cr. Graduate.
Integration and application of concepts learned in other ergonomic courses to analyze and abate ergonomic hazards in a scientific manner.
Prerequisites: grad st; Ind Eng 780(P), 783(P), 786(P), 788(P) or cons instr.
Course Rules: Jointly offered with & counts as repeat of Ind Eng 790.
Last Taught: Fall 2016, Spring 2016, Fall 2014, Summer 2014.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 810 Critical Evaluation of Theory, Research and Practice
2 cr. Graduate.
Appraisal and application of knowledge and concepts acquired in academic and fieldwork education to occupational therapy practice.
Prerequisites: grad st in OT program or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 880 Master's Project
1-6 cr. Graduate.
Preparation of an individual project under the supervision of the student’s major advisor.
Prerequisites: grad st; cons advisor.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 890 Research and Thesis
1-6 cr. Graduate.
Production of a dissertation under the supervision of the student’s major professor with the consultation of the degree committee.
Prerequisites: grad st; cons advisor.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 900 Research and Dissertation
1-6 cr. Graduate.
Production of a dissertation under the supervision of the student’s major professor with the consultation of the degree committee.
Prerequisites: grad st; cons advisor.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

OCCTHPY 990 Advanced Independent Study
1-3 cr. Graduate.
Supervised investigation of particular topic area either not covered by other occupational therapy courses or at a level of sophistication beyond that in a course.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Therapeutic Recreation Courses

THERREC 103 Introduction to Leisure
3 cr. Undergraduate.
Introductory survey of the historical, philosophical, sociological, developmental, and cultural aspects of recreation, leisure, and play.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

THERREC 200 Psycho/Social Aspects of Leisure
3 cr. Undergraduate.
Study of the psychological and sociological aspects of leisure participation.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THERREC 202 Disability: Society and the Person
3 cr. Undergraduate.
Goals are to introduce and sensitize students to individuals with disabilities and to enable students to understand the psychological and social impact of disability.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THERREC 203 Therapeutic Recreation Process
3 cr. Undergraduate.
Study of Therapeutic Recreation (TR) process including the values and underpinning of practice, and the inter-relationships between TR, health care and human service professionals.
Prerequisites: none.
Course Rules: Counts as a repeat of TherRec 390 with same topic. Course taught completely online.
Last Taught: UWinteriM 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
THERREC 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective
3 cr. Undergraduate.
Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.
Prerequisites: soph st or cons instr.
Course Rules: BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

THERREC 297 Study Abroad - Therapeutic Recreation:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: Acceptance to Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

THERREC 300 Therapeutic Recreation Assessment and Documentation
4 cr. Undergraduate.
Study and practice of therapeutic recreation assessment and documentation techniques.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

THERREC 301 Program Development and Evaluation in Therapeutic Recreation
3 cr. Undergraduate.
Study of systematic program design and evaluation techniques.
Prerequisites: jr st in TherRec major or cons instr.
Last Taught: Fall 2005, Fall 2004, Fall 2003, Fall 2002.
Current Offerings: http://uwm.edu/schedule

THERREC 303 Inclusive and Disability Programs in the Community
3 cr. Undergraduate.
Study of concepts and practices related to the delivery of community programs for individuals with disabilities.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

THERREC 308 Therapeutic Recreation in Physical Rehabilitation and Behavioral Health
4 cr. Undergraduate.
Therapeutic recreation services for individuals with physical disabilities and psychiatric disorders.
Prerequisites: none
Course Rules: Not open for cr for students with cr in TherRec 304(ER) or TherRec 305(ER).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

THERREC 309 Therapeutic Recreation in Pediatrics and Gerontology
4 cr. Undergraduate.
Therapeutic recreation services for children/adolescents and elderly individuals.
Prerequisites: jr st or cons instr.
Course Rules: Not open for cr for students with cr in TherRec 306(ER) or 307(ER).
Current Offerings: http://uwm.edu/schedule

THERREC 310 Facilitation Techniques in Therapeutic Recreation
4 cr. Undergraduate.
Study of therapeutic recreation facilitation techniques.
Prerequisites: None.
Current Offerings: http://uwm.edu/schedule

THERREC 390 Topics in Therapeutic Recreation:
1-3 cr. Undergraduate.
Topics of current interest in therapeutic recreation. Specific credits and additional prerequisites will be announced in the Schedule of Classes whenever the course is offered.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

THERREC 399 Independent Study in Therapeutic Recreation
1-3 cr. Undergraduate.
Individualized experience which enables the student to study current topics of interest to the therapeutic recreation specialist.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken to max of 3 cr.
Current Offerings: http://uwm.edu/schedule

THERREC 400 Issues and Trends in Therapeutic Recreation (TR)
3 cr. Undergraduate.
Examination of the most current issues and trends in the field and advancement of the profession.
Prerequisites: TherRec 308(P) or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

THERREC 401 Therapeutic Recreation Internship and Seminar
12 cr. Undergraduate.
Therapeutic recreation field instruction at approved agencies for forty hours per week for a full semester. Seminar to prepare students for professional involvement.
Prerequisites: must have completed all course work in the TherRec major.
Current Offerings: http://uwm.edu/schedule
Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kris Barnekow</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Joyce Engel</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Kansas</td>
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<tr>
<td>Arun Garg</td>
<td>Professor, Distinguished Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Tamicah Gelting</td>
<td>Unlisted</td>
<td>MS, OTR</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Mark Johnston</td>
<td>Professor</td>
<td>PhD</td>
<td>Claremont Graduate University</td>
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<tr>
<td>Jay Kapellusch</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Phyllis King</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Theodore King</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Randal Kohl</td>
<td>Clinical Instructor</td>
<td>MS, CTRS, CPRP, CBIS</td>
<td>University of Wisconsin-La Crosse</td>
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<tr>
<td>Nancy Nelson</td>
<td>Clinical Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Heidi Plach</td>
<td>Clinical Associate Professor</td>
<td>MS</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Carol Haertlein Sells</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Michelle Kaye Silverman</td>
<td>Unlisted</td>
<td>MS, OTR</td>
<td>University of Wisconsin-Milwaukee</td>
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</tr>
<tr>
<td>Bhagwant Sindhu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Florida</td>
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<tr>
<td>Brooke Slavens</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Marquette University</td>
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<tr>
<td>Roger O. Smith</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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<tr>
<td>Virginia Stoffel</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Cardinal Stritch University</td>
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<tr>
<td>Patricia Thomas</td>
<td>Clinical Associate Professor</td>
<td>MPA</td>
<td>Long Island University</td>
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<tr>
<td>Dennis Tomashke</td>
<td>Lecturer, Researcher</td>
<td>MS</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Ying-Chih (Inga) Wang</td>
<td>Associate Professor</td>
<td>OTR/L, PhD</td>
<td>Johns Hopkins University</td>
<td></td>
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<tr>
<td>Dana Washburn</td>
<td>Clinical Assistant Professor</td>
<td>MS</td>
<td>Rush University, Chicago</td>
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</tbody>
</table>

Assistive Technology and Accessible Design, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology)

The Certificate in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The Departments of Occupational Science and Technology and Communication Sciences Disorders in the College of Health Sciences, along with the Department of Exceptional Education in the School of Education, collaborate on the course offerings and management. The certificate follows a model of prerequisite disability and technology basic knowledge, survey of the fields, assessment, intervention and leadership. Completion of the certificate will help prepare the students to sit for State and National certification examinations as Assistive Technology Specialists, Rehabilitation Engineering Technologist and Low Vision Specialist.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

Admission
Students interested in this certificate should contact one of the three sponsoring programs before enrolling in any certificate courses. Admission to the certificate requires evidence of a basic knowledge of disability and computer applications, and an undergraduate GPA of at least 2.75 or a graduate GPA of at least 3.0.

Credits and Courses
Generally, students in the health sciences and exceptional education will have sufficient coursework in disability related studies. Prerequisite evidence in disability related studies may be obtained at the
undergraduate level. One of the following is recommended to meet the computer applications requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 730</td>
<td>Assistive and Instructional Technology for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 750</td>
<td>Computer Applications in Occupational Therapy Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

The Certificate in Assistive Technology and Accessible Design requires completion of a minimum 15 credits as listed below. In special circumstances, the ATAD coordinator and advisory board may approve substitution of an equivalent Assessment or Intervention course relevant to assistive technology and adaptive design as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 620</td>
<td>Introduction to Assistive and Rehabilitation Technology (must be taken at graduate level)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 765</td>
<td>Assistive Technology Service Delivery in Schools</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 715</td>
<td>Assessment and Intervention in Augmentative and Alternative Communication</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 770</td>
<td>Assessment in Assistive Technology and Accessible Design</td>
<td>3</td>
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</tbody>
</table>

**Intervention**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td>3</td>
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<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision &amp; Visual Impairment</td>
<td>3</td>
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<tr>
<td>OCCTHPY 596</td>
<td>Vision II: Practical Aspects of Visual Impairment &amp; Low Vision Intervention</td>
<td>3</td>
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<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
<td>3</td>
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<tr>
<td>OCCTHPY 999</td>
<td>Advanced Independent Study</td>
<td>3</td>
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<tr>
<td>EXCEDUC 735</td>
<td>Technology &amp; Instruction for Students with Disabilities</td>
<td>3</td>
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<tr>
<td>EXCEDUC/OCCTHPY 777</td>
<td>Fieldwork in Assistive Technology</td>
<td>3</td>
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<tr>
<td>EXCEDUC 799</td>
<td>Independent Reading</td>
<td>3</td>
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<tr>
<td>COMSDIS 717</td>
<td>Special Populations in Communication Disorders</td>
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<tr>
<td>COMSDIS 791</td>
<td>Research Experience in Communication Sciences and Disorders</td>
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<tr>
<td>COMSDIS 799</td>
<td>Independent Studies</td>
<td>3</td>
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</table>

**Elective**

Select an additional 3 credits from either Assessment or Intervention list

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>OCCTHPY 760</td>
<td>Assistive and Rehabilitation Technology</td>
<td>3</td>
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</table>

Total Credits 15

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1. Alternate related graduate-level course can substitute if this course has been completed on an undergraduate level.
2. Any U/G course must be taken at graduate level.

### Certificate Requirements

**Minimum Grade Requirement**

To be awarded the certificate, students must earn a minimum grade of B in the certificate courses (B- not allowed).

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

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

**Articulation with Degree Programs**

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

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

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

### Occupational Studies, BS

You've decided you enjoy working with persons with disabilities either through direct care or administrative service. Not quite sure which is the best career path? The Bachelor of Science in Occupational Studies allows you the chance to pursue a variety of career options. A flexible educational path, combined with a blend of elective courses, and you'll be prepared to work in different health and human service settings.

You will also be particularly well prepared for further graduate study in Occupational Therapy and other disability related disciplines. Acceptance and completion of the undergraduate program in occupational studies...
does not guarantee admission into the Master of Occupational Therapy Program.

Become part of a large interdisciplinary department with specialty areas in assistive technology, engineering, occupational therapy and therapeutic recreation. Learn from faculty who are among the strongest in the nation in terms of their leadership, professional credentials and research productivity.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td><strong>Program Core</strong></td>
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<td><strong>Track</strong></td>
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<td><strong>Free Electives and GER</strong></td>
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</tr>
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<td></td>
<td><strong>Total Credits</strong></td>
<td>120-126</td>
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</table>

Degree Requirements

Students will automatically be admitted to the major after completion of 57 credits. Within those 57 credits students must have a B- or better in:

- BIO SCI 202
- OCCTHPY 151
- OCCTHPY 201
- PSYCH 101
- THERREC 202

At the time of admission to the major, students must declare at least one track that they will complete.

Upon admission to the major, students must maintain a 2.75 cumulative GPA. Failure to attain a semester GPA of 2.75 or higher will result in the student being placed on academic probation for one semester. A second semester GPA below 2.75 will result in dismissal from the program. Program required courses can be repeated. Any given course may be repeated only one time.

Students must achieve the following to complete an undergraduate degree in occupational studies:

1. Satisfactory completion of 120 credits with a cumulative 2.75 GPA or better in all credits earned at UWM. Because a master’s degree is required for professional practice as an occupational therapist or many other health-related fields, it is recommended that students maintain a GPA greater than 3.0 to be competitive with other Graduate School applicants;
2. Satisfactory completion of the University General Education Requirements (p. 33); and
3. Completion of the last 30 credits in residence at UWM.

Students are encouraged to contact your advisor at the beginning of your senior year to ensure that all requirements are being met.

Course of Study

The program is divided into foundation, core or required, track and free elective courses. The undergraduate program requires 120 credits for graduation. All students admitted to the professional program must satisfy University-wide General Education Requirements (GER) (p. 33), (except second-degree candidates who are exempt). English and mathematics competency requirements must also be met.

With 120 credits required to graduate with a bachelor’s degree in Occupational Studies, students need to take responsibility to complete all foundation and core courses, GER requirements, at least one program track, and sufficient free elective credits. A number of GER courses are part of the degree requirements. Recommended free electives and certificate/minor programs are listed to assist the student in creating an individualized area of study.

Requirements are subject to change as of the publication date of the catalog. Please check with the Office of Student Affairs for the most current information.

<table>
<thead>
<tr>
<th>Code</th>
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<td><strong>Competency Requirements</strong></td>
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<td>Oral and Written Communication (OWC) Part A &amp; B</td>
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<td>Quantitative Literacy (QL) Part A &amp; B</td>
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<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Foundation</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BIO SCI 202 Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIO SCI 203 Anatomy and Physiology II (GER NS)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COMMUN 103 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 205 Business Writing (OWC-B)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or ENGLISH 207 Health Science Writing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCA 203 Human Life Cycle (GER SS)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KIN 270 Statistics in the Health Professions: Theory and Practice (QL-B)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OCCTHPY 151 Foundations of Scientific Inquiry for Occupational Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHYSICS 120 &amp; PHYSICS 121 General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment) (GER NS)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>PSYCH 101 Introduction to Psychology (GER SS)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSYCH 412 Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Program Core - maximum of 1 course may be repeated</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OCCTHPY 201 Introduction to Occupational Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OCCTHPY 220 Gizmos and Gadgets: Introduction to Assistive Technology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>THERREC 202 Disability: Society and the Person</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OCCTHPY 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective (GER CD and SS)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or THERREC 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OCCTHPY 260 Enhancing Health Through Activity, Occupation and Technology I</td>
<td>3</td>
</tr>
</tbody>
</table>
**OCCTHPY 320**  Introduction to Ergonomics for Healthcare Professionals  3

**OCCTHPY 340**  Evidenced for Practice I: Applications of Biostatistics  3

**OCCTHPY 341**  Evidence for Practice II: Appraising Evidence  3

**OCCTHPY 401**  Overview of Medical Conditions  3

**OCCTHPY 530**  Contemporary Issues and Professional Preparation in Occupational Studies  3

**Track**

Select at least one track  21

**Free Electives and GER**

Select 35-41 credits (minimum of 9 cr at 400 level or higher). See below.  35-41

Total Credits  120-126

---

**Tracks**

**Disability and Occupation - This Track is predominantly aimed towards students that are interested in health and human service professions such as Occupational Therapists and others.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THERREC 202</td>
<td>Disability: Society and the Person (GER SS)</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 250</td>
<td>Concepts of Time and Occupation</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 303</td>
<td>Inclusive and Disability Programs in the Community</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 315</td>
<td>Group Process in Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 401</td>
<td>Overview of Medical Conditions</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 505</td>
<td>Work and Disability</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits  21

**Applications of Assistive Technology - This track is aimed towards students who are interested in applying technology and/or designing environments and products that enhance the capabilities of persons living with and without a disability.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 220</td>
<td>Gizmos and Gadgets: Introduction to Assistive Technology</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 250</td>
<td>Concepts of Time and Occupation</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 420</td>
<td>Principles of Human Factors and Usability</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 521</td>
<td>Essentials of Assistive and Rehabilitation Technology</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision &amp; Visual Impairment (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability (U/G)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits  21

---

**Therapeutic Recreation - This Track is aimed toward students who are interested in the areas of Therapeutic Recreation, Activities or Adapted Community Recreation.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THERREC 103</td>
<td>Introduction to Leisure</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 203</td>
<td>Therapeutic Recreation Process</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 300</td>
<td>Therapeutic Recreation Assessment and Documentation</td>
<td>4</td>
</tr>
<tr>
<td>THERREC 308</td>
<td>Therapeutic Recreation in Physical Rehabilitation and Behavioral Health</td>
<td>4</td>
</tr>
<tr>
<td>THERREC 310</td>
<td>Facilitation Techniques in Therapeutic Recreation</td>
<td>4</td>
</tr>
<tr>
<td>THERREC 400</td>
<td>Issues and Trends in Therapeutic Recreation (TR)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits  21

---

**Recommended Minors/Certificates**

(not inclusive)

**College of Health Sciences**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Certificate in the Study of Complementary and Alternative Medicine (CAM)</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Certificate in Healthy Aging</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Minor in Health Care Administration</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Minor in Kinesiology</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Minor in Nutritional Sciences</td>
<td>21</td>
</tr>
</tbody>
</table>

**College of Letters and Science**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Certificate in Childhood and Adolescence Studies</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Certificate in Global Health</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Certificate in Spanish for Health Professionals</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Minor in Anthropology</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Minor in Communication</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Minor in Psychology</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Minor in Sociology</td>
<td>18</td>
</tr>
</tbody>
</table>

**Lubar School of Business**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor in Business</td>
<td>Varies depending on student plan</td>
<td>29</td>
</tr>
</tbody>
</table>
School of Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Autism Spectrum Disorders</td>
<td>5-6 total courses 15-18</td>
</tr>
<tr>
<td></td>
<td>Community Engagement</td>
<td>6-7 courses 21</td>
</tr>
</tbody>
</table>

**Students Entering the OS Program Prior to Fall 2017**

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foundation</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>Department Electives</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Program Core</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Free Electives and GER</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>120</td>
</tr>
</tbody>
</table>

**Admission to the Major**

Students will automatically be admitted to the major after completion of 57 credits. Upon admission to the Occupational Studies major, students must maintain a 2.75 cumulative GPA. Students may repeat a departmental required course only one time.

**Degree Requirements**

Students must achieve the following to complete an undergraduate degree in occupational studies:

1. Satisfactory completion of 120 credits with a cumulative 2.75 GPA or better in all credits earned at UWM. Because a master's degree is required for professional practice as an occupational therapist or many other health-related fields, it is recommended that students maintain a GPA greater than 3.0 to be competitive with other Graduate School applicants;
2. Satisfactory completion of the University General Education Requirements (p. 33); and
3. Completion of the last 30 credits in residence at UWM.

Students are encouraged to contact your advisor at the beginning of your senior year to ensure that all requirements are being met.

**Course of Study**

The program is divided into foundation, core or required, and elective courses. The undergraduate program requires 120 credits for graduation. All students, except second degree candidates, admitted to the program must satisfy University-wide General Education Requirements (GER) (p. 33). English and mathematics competency requirements must also be met.

With 120 credits required to graduate with a bachelor's degree in Occupational Studies, students need to take responsibility to complete all required courses, GER requirements, and elective credits. A number of GER courses are part of the degree requirements. Some GER courses are available within the Occupational Science and Technology Department programs and the College of Health Sciences. See listing below for delineation of GER courses.

Requirements are subject to change. Please check with the Office of Student Affairs for the most current information.

**Course of Study**

**Foundation**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II (GER NS)</td>
<td>4</td>
</tr>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Integrative Health Approaches (GER SS)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing (OWC-B)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 207</td>
<td>Health Science Writing (OWC-B)</td>
<td>3</td>
</tr>
<tr>
<td>HCA 203</td>
<td>Human Life Cycle (GER SS)</td>
<td>3</td>
</tr>
<tr>
<td>HS 105</td>
<td>Survey of the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice (QL-B)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry (QL-B)</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 120&amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment) (GER NS)</td>
<td>5</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology (GER SS)</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 205</td>
<td>Personality (GER SS)</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 412</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Program Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 151</td>
<td>Foundations of Scientific Inquiry for Occupational Studies</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 201</td>
<td>Introduction to Occupational Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective (GER CD and SS)</td>
<td>3</td>
</tr>
<tr>
<td>or THERREC 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 260</td>
<td>Enhancing Health Through Activity, Occupation and Technology I</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 401</td>
<td>Overview of Medical Conditions</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 315</td>
<td>Group Process in Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 340</td>
<td>Evidenced for Practice I: Applications of Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 341</td>
<td>Evidence for Practice II: Appraising Evidence</td>
<td>3</td>
</tr>
</tbody>
</table>

**Department Electives**

Select a minimum of 21 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision &amp; Visual Impairment (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 103</td>
<td>Introduction to Leisure (GER HU)</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 203</td>
<td>Therapeutic Recreation Process</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 300</td>
<td>Therapeutic Recreation Assessment and Documentation</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 303</td>
<td>Inclusive and Disability Programs in the Community</td>
<td>3</td>
</tr>
</tbody>
</table>
The number of free electives required varies (23-29 credits) depending on the track that you follow. We encourage you to pursue a minor or certificate program with your free electives.

### Recommended Free Electives

The number of free electives required varies (23-29 credits) depending on the track that you follow. You must take a minimum of 9 credits at the 400 level or higher. We encourage you to pursue a minor or certificate program with your free electives.

*(not inclusive)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Integrative Health Approaches</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 250</td>
<td>Interprofessional Communication in the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>HCA 220</td>
<td>Leading Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HS 105</td>
<td>Survey of the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 235</td>
<td>Introduction to Nutrition for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>SPT&amp;REC 112</td>
<td>Yoga I</td>
<td>1</td>
</tr>
<tr>
<td>SPT&amp;REC 113</td>
<td>Yoga II</td>
<td>1</td>
</tr>
<tr>
<td>SPT&amp;REC 298</td>
<td>Meditation, Relaxation, and Wellness:</td>
<td>1-3</td>
</tr>
<tr>
<td>UWM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 101</td>
<td>Introduction to Anthropology: Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>BME 101</td>
<td>Fundamentals of Biomedical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 200</td>
<td>Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 300</td>
<td>The Exceptional Individual</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 330</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 352</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 205</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 433</td>
<td>Neuropsychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 331</td>
<td>Sociology of Health Care</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 341</td>
<td>Sociology of Deviant Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

### Department of Occupational Science and Technology

- **Occupational Therapy, MS: Assistive Technology and Accessible Design**

  The Concentration in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The College of Health Science’s Departments of Occupational Science & Technology and Communication Sciences Disorders, along with the School of Education’s Department of Exceptional Education, collaborate on the course offerings. The concentration emphasizes technologies for disability.

### Related Certificates

- Graduate Certificate in Applied Gerontology ([http://uwm.edu/graduateschool/applied-gerontology-certificate](http://uwm.edu/graduateschool/applied-gerontology-certificate))

The Department of Occupational Science and Technology offers a Master of Science in Occupational Therapy that prepares students to become occupational therapists. During the program, students engage in
graduate-level instruction embedded in the theory, research, and clinical underpinnings required to become evidence-based occupational therapy practitioners. Students may select a thesis option or project option in pursuing this degree. Students who are interested can choose to combine elective courses from the OT program with other courses on campus to receive the transcript-designated concentration in assistive technology and accessible design and/or ergonomics. (Note: The ergonomics concentration is being revised; admission to the program is temporarily suspended.)

Graduates of the program are eligible to take the occupational therapist certification examination offered by the National Board for Certification in Occupational Therapy. The Master of Science in Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) (http://www.acoteonline.org) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE's telephone number c/o AOTA is (301) 652-AOTA (2682).

All students admitted to the MS in Occupational Therapy degree program will be required to complete a Background Information Disclosure form (HFS64). A background check, which identifies a past criminal record, does not necessarily preclude an individual from pursuing studies in occupational therapy or becoming a successful practitioner. Should there be a discrepancy between the information reported by the student on HFS-64 and the reports issued by the Department of Justice and the Department of Health and Family Services, the student will be subject to dismissal from the occupational therapy program and reported to DHFS (HFS64). A background check, which identifies a past criminal record, will be required to complete a Background Information Disclosure form (HFS64). A background check, which identifies a past criminal record, will be required to complete a Background Information Disclosure form (HFS64).

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
Applications for the MS OT handled annually using the OT Centralized Application Service (OTCAS) (https://portal.otcas.org). OTCAS provides a full-service, Web-based application and admissions process for prospective occupational therapy program applicants.

Following are important dates for the 2017-2018 OTCAS application cycle, i.e. those applying to start the OT Program in Fall 2018.

- July 18, 2017: Applications open.
- January 15, 2018 (December 1 if international): Deadline for submission of all application material to OTCAS.

Once recommended for acceptance to UWM’s MS in Occupational Therapy Program, students need to apply to and be accepted by UWM’s Graduate School. However, students may apply to UWM’s Graduate School at any time prior to being recommended for acceptance to the OT Program.

Admission
The MS in Occupational Therapy Program admits students on the basis of a competitive application process. Students are accepted into the program once per year in Spring and begin professional coursework in the following Fall.

In addition to Graduate School requirements (http://uwm.edu/graduateschool/admission), applicants must meet these departmental requirements to be considered for admission to the program.

1. An undergraduate degree completed by the end of the Spring semester of the year prior to beginning the OT Program, from an accredited institution, with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale).
2. Six prerequisite courses, required to be completed by end of Fall semester of the year prior to beginning the OT Program, with a minimum grade point average of 3.0 (on a 4.0 scale):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Human Anatomy</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Human Physiology</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following natural science courses:

- Physics ^2
- Biology ^2
- Chemistry ^2
- Psychology ^2

1 Courses requiring a lab component.
2 Courses with laboratory-based data analysis required.

3. Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) taken within the last five years
4. Completed OTCAS application.
5. Three letters of recommendation: One letter must be from an academic source and one from a clinical/health-related source. The third letter can be either from an academic or clinical / health-related source. All three letters must use the OTCAS form.
6. Reasons Statement or Personal Essay: This is the same as the OTCAS essay. Address why you selected occupational therapy as a career and how an occupational therapy degree relates to your immediate and long-term professional goals.

For all admission and application related questions, please contact (414) 229-4713 or OT-program@uwm.edu.
Credits and Courses
The program is a tracked curriculum of 69 credits over 28 months, including a minimum of 24 weeks of full-time fieldwork during the program. OCCTHPY 810 serves as the capstone requirement for the degree. Students will enroll as full-time students for each term of study (Summer, Fall, Spring). There is no part-time option for students in the MS in OT program. Students must maintain a GPA of 3.0 and a grade of B- or better in all required courses. Students who do not maintain this will be placed on probation.

Assistive Technology and Accessible Design

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation</td>
<td>9</td>
</tr>
<tr>
<td>OCCTHPY 620</td>
<td>Introduction to Assistive and Rehabilitation Technology</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select a minimum of 6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision &amp; Visual Impairment</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 596</td>
<td>Vision II: Practical Aspects of Visual Impairment &amp; Low Vision Intervention</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 760</td>
<td>Assistive and Rehabilitation Technology</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 770</td>
<td>Assessment in Assistive Technology and Accessible Design</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 777</td>
<td>Fieldwork in Assistive Technology</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 999</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
<tr>
<td>COMSDIS 717</td>
<td>Special Populations in Communication Disorders</td>
<td></td>
</tr>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td></td>
</tr>
</tbody>
</table>

Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCTHPY 810</td>
<td>Critical Evaluation of Theory, Research and Practice</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits: 17

Program Requirements

Major Professor as Advisor
The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors in the MS in OT program upon acceptance into the program.

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

Occupational Therapy, MS: Ergonomics

Note: The concentration in ergonomics is being revised; admission to the program is temporarily suspended.

This concentration provides the skills and experience needed to practice ergonomics in work environments. Students learn theoretical concepts of occupational biomechanics, physiology, psychophysics, and human factors as well as numerous job analysis techniques. Students are taught how to synthesize and apply these theories and tools to reduce injuries, improve productivity and increase quality of service/goods in industry. Emphasis is placed on practical applications and solutions.

Related Certificates

- Certificate in Assistive Technology and Accessible Design (http://uwm.edu/graduateschool/assistive-technology-accessible-design-certificate)
- Certificate in Trauma-Informed Care (http://uwm.edu/graduateschool/trauma-informed-care-certificate)
- Graduate Certificate in Applied Gerontology (http://uwm.edu/graduateschool/applied-gerontology-certificate)

The Department of Occupational Science and Technology offers a Master of Science in Occupational Therapy that prepares students to become occupational therapists. During the program, students engage in graduate-level instruction embedded in the theory, research, and clinical underpinnings required to become evidence-based occupational therapy practitioners. Students may select a thesis option or project option in pursuing this degree. Students who are interested can choose to combine elective courses from the OT program with other courses on campus to receive the transcript-designated concentration in assistive technology and accessible design and/or ergonomics. (Note: The ergonomics concentration is being revised; admission to the program is temporarily suspended.)

Graduates of the program are eligible to take the occupational therapist certification examination offered by the National Board for Certification in Occupational Therapy. The Master of Science in Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) (http://www.acoteonline.org) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE’s telephone number c/o AOTA is (301) 652-AOTA (2682).

All students admitted to the MS in Occupational Therapy degree program will be required to complete a Background Information Disclosure form (HFS64). A background check, which identifies a past criminal record, does not necessarily preclude an individual from pursuing studies in occupational therapy or becoming a successful practitioner. Should there be a discrepancy between the information reported by the student on HFS-64 and the reports issued by the Department of Justice and the Department of Health and Family Services, the student will be subject to dismissal from the occupational therapy program and reported to DHFS per HFS 12.20 (1)(c), Wis. Adm. Code

Graduates of the master’s program will be eligible to sit for the National Certification Examination for the Occupational Therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). In addition, most states require licensure to practice; however state licenses are usually based on the results of the NBCOT Certification Examination. Candidates for the NBCOT Certification Examination will be asked to answer questions related to the topic of felonies when applying for the exam. For further information on these limitations and other certification requirements, contact NBCOT at www.nbcot.org (http://www.nbcot.org) or The National Board for Certification in Occupational Therapy, 12 South Summit Avenue, Suite 100, Gaithersburg, MD 20877 (301) 990-7979. A
Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application

Applications for the MS OT handled annually using the OT Centralized Application Service (OTCAS) (https://portal.otcas.org). OTCAS provides a full-service, Web-based application and admissions process for prospective occupational therapy program applicants.

Following are important dates for the 2017-2018 OTCAS application cycle, i.e. those applying to start the OT Program in Fall 2018.

- **July 18, 2017**: Applications open.
- **January 15, 2018** (December 1 if international): Deadline for submission of all application material to OTCAS.

Once recommended for acceptance to UWM’s MS in Occupational Therapy Program, students need to apply to and be accepted by UWM’s Graduate School. However, students may apply to UWM’s Graduate School at any time prior to being recommended for acceptance to the OT Program.

Admission

The MS in Occupational Therapy Program admits students on the basis of a competitive application process. Students are accepted into the program once per year in Spring and begin professional coursework in the following Fall.

In addition to Graduate School requirements (http://uwm.edu/graduateschool/admission), applicants must meet these departmental requirements to be considered for admission to the program.

1. An undergraduate degree completed by the end of the Spring semester of the year prior to beginning the OT Program, from an accredited institution, with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale).
2. Six prerequisite courses, required to be completed by end of Fall semester of the year prior to beginning the OT Program, with a minimum grade point average of 3.0 (on a 4.0 scale):

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<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 780</td>
<td>Advanced Ergonomics - Low Back Pain</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 783</td>
<td>Advanced Ergonomics - Upper Extremity</td>
<td>3</td>
</tr>
</tbody>
</table>

| Electives       | 6                                      |

Select a minimum of 6 credits from the following:

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<td>Methods Engineering</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 625</td>
<td>Design and Disability</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 786</td>
<td>Applied Biostatistics in Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 788</td>
<td>Legal Issues and Regulatory Agencies in Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 790</td>
<td>Design Project</td>
<td>3</td>
</tr>
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</table>

Capstone: 2

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Program Requirements

Major Professor as Advisor

The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors in the MS in OT program upon acceptance into the program.

Time Limit

The student must complete all degree requirements within four years of initial enrollment.

Credits and Courses

The program is a tracked curriculum of 69 credits over 28 months, including a minimum of 24 weeks of full-time fieldwork during the program. OCCTHPY 810 serves as the capstone requirement for the degree. Students will enroll as full time students for each term of study (Summer, Fall, Spring). There is no part-time option for students in the MS in OT program. Students must maintain a GPA of 3.0 and a grade of B- or better in all required courses. Students who do not maintain this will be placed on probation.

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Total Credits: 17

1. Courses requiring a lab component.
2. Courses with laboratory-based data analysis required.
Occupational Therapy, MS

Related Certificates

- Certificate in Assistive Technology and Accessible Design (http://uwm.edu/graduateschool/assistive-technology-accessible-design-certificate)
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Admission Requirements

Application Deadlines

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<tr>
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<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Human Anatomy 1</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Human Physiology 1</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Human Development</td>
<td></td>
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</tr>
<tr>
<td>Introduction to Psychology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following natural science courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry 2</td>
<td></td>
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1 Courses requiring a lab component.
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Credits and Courses
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Transcript-Designated Concentrations
Through judicious use of electives, students may also choose one of two transcript-designated concentrations. This may require completion of more than the minimum 69 credits.

Program Requirements
Major Professor as Advisor
The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors in the MS in OT program upon acceptance into the program.

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

Therapeutic Recreation, Undergraduate Certificate
Therapeutic Recreation (TR) is the provision of treatment services and recreation services to persons with illnesses or disabling conditions. The primary purposes of treatment services (also called recreation therapy) are to restore, remediate, or rehabilitate in order to improve functioning and independence. The primary purpose of recreation services is to provide recreation and leisure resources and opportunities to help improve health and well-being and enhance quality of life.

Therapeutic Recreation Specialists may work in hospitals, residential care, long-term care, schools, and a variety of community settings. Individuals served include people with mental, physical, or emotional disabilities. A variety of recreation/leisure activities are employed as tools to help those served attain independence and a high quality of life.

According to the U.S. Department of Labor, “The rapidly growing number of older adults is expected to spur job growth for recreational therapy professionals and paraprofessionals in assisted-living facilities, adult daycare programs, and other social assistance agencies. Continued growth also is expected in community residential care facilities, aswell as daycare programs for individuals with disabilities.” Given the projected need for recreation specialists, the College of Health Sciences at UWM has created a certificate program in Therapeutic Recreation (TR) available to a broad range of individuals, including students and TR and other human service professionals in the community. In addition, individuals who are certified with the National Council for Therapeutic Recreation Certification (NCTRC) may wish to complete certificate coursework to comply with continuing education requirements.

The certificate focuses on the development of knowledge and acquisition of skills and abilities in the areas of health and TR. Courses present the concepts of health, wellness, disease, and illness in relation to quality of life for individuals with disabilities. Specific skill development in the areas of assessment and facilitation techniques is also taught and complemented with an ongoing focus on emerging issues in the field of therapeutic recreation. In preparation for the nationally recognized certification examination, coursework covers topic areas included in the NCTRC Job Analysis categories. The program may be taken by UWM undergraduates concurrently with their chosen major, or as a post-baccalaureate educational certificate program.

Related Programs and Degrees
Students interested in pursuing a career in Therapeutic Recreation may wish to examine one of the following degree programs at UWM:

Bachelor of Art
- Psychology
- Sociology

Bachelor of Science
- Biological Sciences
- Nursing
- Occupational Studies
- Social Work

Notes:
- Completion of this certificate program partially fulfills the academic coursework requirements for the NCTRC Certified Therapeutic Recreation Specialist credential. Additional requirements are needed to fully qualify for the credential.
- Students interested in obtaining NCTRC certification are encouraged to visit the NCTRC website at www.nctrc.org (https://nctrc.org)

For more information about the certificate program, contact Patricia Thomas, TR Certificate Coordinator, at (414) 229-2507 or pthomas@uwm.edu.

Requirements
Five courses are required to successfully complete the totally online Certificate in Therapeutic Recreation. A minimum cumulative grade point average of 2.5 must be maintained on all the required coursework.

TR Certificate Coursework

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Introductory courses</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:
THERREC 103 Introduction to Leisure (SU/F/S)
THERREC 202 Disability: Society and the Person (F)
THERREC 203 Therapeutic Recreation Process (SU/F)

Intervention courses
Select three of the following: 11-12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THERREC 300</td>
<td>Therapeutic Recreation Assessment and Documentation (S) 1</td>
<td></td>
</tr>
<tr>
<td>THERREC 303</td>
<td>Inclusive and Disability Programs in the Community (F)</td>
<td></td>
</tr>
<tr>
<td>THERREC 308</td>
<td>Therapeutic Recreation in Physical Rehabilitation and Behavioral Health (F) 1</td>
<td></td>
</tr>
<tr>
<td>THERREC 310</td>
<td>Facilitation Techniques in Therapeutic Recreation (S) 1</td>
<td></td>
</tr>
</tbody>
</table>

Capstone course
THERREC 400 Issues and Trends in Therapeutic Recreation (TR) (SU/F) 1 3

Total Credits 17-18

1 Required for students seeking the credential as a Certified Therapeutic Recreation Specialist (CTRS) with the National Council for Therapeutic Recreation Certification (NCTRC).

F, S, SU (fall, spring, summer) refers to the semesters in which courses are taught.

Trauma Informed Care, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application

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

Admission

Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

Credits and Courses

All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

<table>
<thead>
<tr>
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<tr>
<td>SOC WRK/COUNS/</td>
<td>Trauma Counseling I: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS/OCCTHPY 774</td>
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<tr>
<td>SOC WRK/COUNS/</td>
<td>Trauma Counseling II: Diagnosis and Treatment</td>
<td>3</td>
</tr>
<tr>
<td>NURS/OCCTHPY 775</td>
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</tr>
</tbody>
</table>

Electives

Select 9 elective credits (see Potential Electives list below) 9

Recommended Field Work

Select 3-6 credits from the following: 1 3-6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I</td>
<td></td>
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<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
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</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
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<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
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<tr>
<td>SOC WRK 921</td>
<td>Field Instruction V</td>
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<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
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<tr>
<td>COUNS 765</td>
<td>Supervised Practicum 1 in Clinical Mental Health Counseling</td>
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</tr>
<tr>
<td>NURS 737</td>
<td>Clinical Nurse Specialist: Practicum I</td>
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<tr>
<td>NURS 738</td>
<td>Clinical Nurse Specialist: Practicum II</td>
<td></td>
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<tr>
<td>NURS 739</td>
<td>Clinical Nurse Specialist: Practicum III</td>
<td></td>
</tr>
<tr>
<td>OCCTHPY 725</td>
<td>Occupational Therapy Field Service I</td>
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</tr>
<tr>
<td>OCCTHPY 735</td>
<td>Occupational Therapy Field Service II</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18-21

Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in in trauma-informed practice field settings, contingent on the respective department’s field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Occupational Therapy—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

Potential Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/CRM JST 497</td>
<td>Study Abroad: (Bristol or South Africa)</td>
<td>1-6</td>
</tr>
<tr>
<td>SOC WRK 820</td>
<td>Seminar in Social Work Practice: (Qualifying topics: Violent &amp; Traumatized Families or Motivational Interviewing)</td>
<td>2</td>
</tr>
</tbody>
</table>
Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.

1 COUNS 704 and COUNS 705 must be taken together to fulfill this requirement.

Time Limit
Certificate program time limits shall be established as follows:

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

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
At UWM's College of Health Sciences, our goal is to develop practitioners, researchers and educators who will be leaders in the profession of physical therapy across the lifespan. And it’s a terrific time to join the PT field because physical therapists are in high demand: The U.S Bureau of Labor Statistics predicts that jobs for PTs will grow 34% between 2014-2024, much faster than average.

**Programs**
- Physical Therapy, DPT (p. 911)

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carlynn A. Alt</td>
<td>Clinical Professor</td>
<td>PhD, PT</td>
<td>Marquette University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ann Dietrich</td>
<td>Clinical Professor, Director of Clinical Education</td>
<td>MS, PT</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
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</tr>
<tr>
<td>Jennifer Earl</td>
<td>Associate Professor</td>
<td>PhD, LAT</td>
<td>Pennsylvania State University</td>
<td></td>
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</tr>
<tr>
<td>Kyle T. Ebersole</td>
<td>Associate Professor</td>
<td>PhD, LAT</td>
<td>University of Nebraska</td>
<td></td>
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<tr>
<td>Wendy Huddleston</td>
<td>Associate Professor</td>
<td>PhD, PT</td>
<td>Medical College of Wisconsin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Renee Mazurek</td>
<td>Clinical Professor</td>
<td>PT, DPT</td>
<td>University of Arizona</td>
<td></td>
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</tr>
<tr>
<td>Victoria A. Moerchen</td>
<td>Associate Professor</td>
<td>PhD, PT</td>
<td>University of Wisconsin-Madison</td>
<td></td>
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</tr>
<tr>
<td>Carrie Truebenbach</td>
<td>Clinical Professor</td>
<td>MS, MSPT, OCS</td>
<td>University of Wisconsin-Milwaukee</td>
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</tr>
<tr>
<td>Kathryn R. Zalewski</td>
<td>Associate Professor</td>
<td>PhD, PT</td>
<td>University of Wisconsin-Milwaukee</td>
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<td></td>
</tr>
</tbody>
</table>

### Physical Therapy, DPT

The Doctor of Physical Therapy (DPT) is the classroom based and clinical education that prepares graduates for entry into the practice of physical therapy. The goal of this entry-level professional education program is to graduate students who are knowledgeable, service-oriented, and reflective practitioners who are able to render independent judgements in people with movement system dysfunction that limits activity and participation. Find out why you should choose UWM to start your career in physical therapy.

The program begins in early June and includes classroom, laboratory, research and clinical learning experiences. Admission to the DPT program is competitive. The faculty values a well-rounded applicant who has demonstrated both academic and personal/professional potential. Our graduates have perfect performance on the NPTE licensing examination.

The Doctor of Physical Therapy Program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; e-mail: accreditation@apta.org; website: www.capteonline.org.

### Admission Requirements

#### Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

#### Admission

Admission to the program is highly competitive. A snapshot of the typical successful applicant is available on the program website’s Frequently Asked Questions (http://uwm.edu/healthsciences/academics/doctoral-physical-therapy/#faq) section. The DPT program enrolls students through the Physical Therapy Centralized Application Service (PTCAS) (http://www.ptcas.org). Policies and procedures related to consideration of the candidate are published on the PTCAS website and updated annually. Students apply to the UWM Graduate School after being recommended for Admission by the DPT program. Undergraduate degree and prerequisite coursework must be completed by the time the student enrolls in the DPT Program.

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these program requirements to be considered for admission to the program:

1. Completion of an undergraduate degree from an accredited institution with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale).
2. Completion of 10 prerequisite courses with a minimum prerequisite grade point average of 3.0 (on a 4.0 scale).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Biology I</td>
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<tr>
<td></td>
<td>General Biology II</td>
<td>4</td>
</tr>
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<td></td>
<td>Human Anatomy or Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Human Physiology or Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Chemistry I</td>
<td>4</td>
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<tr>
<td></td>
<td>Chemistry II</td>
<td>4</td>
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<td></td>
<td>Physics I</td>
<td>4</td>
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<td></td>
<td>Physics II</td>
<td>4</td>
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<td></td>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Courses requiring a lab component.

3. Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) taken within the last five years.
4. Completion of two, 20-hour-each observational experiences with a licensed physical therapist.
5. Two letters of recommendation, one of which must be an academic reference.
6. Responses to narrative essay questions.

**Selection**
Admission to the program is competitive. The program enrolls 26 students annually. Students are selected based on GPA, GRE (http://uwm.edu/graduateschool/admission/#gre) scores, two letters of recommendation (one academic reference, one personal reference), and narratives. The program will give preference during the selection process to candidates with pre-requisite requirements completed at the time of application to the program.

**Credits and Courses**
The program is a sequenced, competency-based curriculum of 121 credits including 36 weeks of internship in the final year of the program. Students will enroll as full time students for each term of study (Summer, Fall, Spring) and will enroll during Winter of their first year in the program. There is no part-time option for students, nor can courses be taken out of sequence in the DPT program.

**Program Requirements**

**Major Professor as Advisor**
The Graduate School requires that each student have a major professor to advise, supervise and approve the program of study. Students are assigned faculty advisors in the DPT program. Faculty advisors are core members of the DPT program faculty who are also licensed or eligible for licensure in the state of Wisconsin.
PRE-PROFESSIONAL PROGRAMS

Programs

- Pre-Physical Therapy (p. 913)

Pre-Physical Therapy

Students Interested in Physical Therapy

Physical therapy is an integral and unique component of the healthcare system. As a health profession, physical therapy focuses on the neuromuscular, musculoskeletal, and cardiopulmonary systems of the human body as these systems relate to human motion and function. Human movement and the ability to interact physically with one’s environment are essential components of physical, emotional, and social well-being. The physical therapist is dedicated to promoting health, preventing disease, and rehabilitating individuals disabled by injury or disease.

The American Physical Therapy Association (APTA) requires students pursuing a career in physical therapy to enter the profession with a post-baccalaureate degree.

An undergraduate degree in Kinesiology will prepare students by providing them with the necessary coursework required to enter most physical therapy graduate programs in the country, provided the student meets other admission criteria.

Requirements

DPT Program Admission

Admission to a DPT program is competitive. Students must maintain a cumulative GPA of 3.0 or better to be eligible for admission. Completion of UWM’s Kinesiology Bachelor of Science degree does not guarantee admission to UWM’s DPT program. Also, be aware of the admission requirements for each individual program as they do vary. Information about preparing for DPT is available in this document “Preparing to Apply for Admission to a Physical Therapy Program (http://uwm.edu/healthsciences/wp-content/uploads/sites/129/2015/06/BS-Kinesiology-Pre-PT-handout.pdf)”.

Sample Plan for Kinesiology Major Student Interested in Physical Therapy

Academic advisors within the College of Health Science Office of Student Affairs will assist students interested in Physical Therapy with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at 414-229-2758.
The School of Information Studies offers a Bachelor of Science degree in Information Science and Technology (BSIST), an undergraduate minor in Information Science and Technology (IST), a Master of Library and Information Science (MLIS), a Master of Science in Information Science & Technology (MSIST), a Certificate of Advanced Studies in Archives and Records Administration, a Certificate of Advanced Studies in Digital Libraries, and a PhD in Information Studies.

**Bachelor of Science in Information Science & Technology (BSIST)**

The Bachelor of Science in Information Science and Technology (BSIST) combines core IT skills like front-end web design, HCI and database management, with electives that you choose. The only degree of its kind in the UW System, the BSIST degree will set you apart from the competition.

**Master of Library and Information Science (MLIS)**

The Master of Library & Information Science (MLIS) program, accredited by the American Library Association since 1976, prepares librarians and information professionals to manage change in an urbanized, technologically oriented and knowledge-based society. Its systematic course of study enables individuals with a strong service orientation to apply principles of library and information science, to use current methods and tools, and to recognize the value of research.

**Master of Science in Information Science & Technology (MSIST)**

The Master of Science in Information Science and Technology is a professional graduate degree program for those who seek advanced training to meet the ever-increasing need for information technology (IT) professionals.

**Doctor of Philosophy in Information Studies (PhD)**

The Doctor of Philosophy in Information Studies prepares graduates for academic and professional careers where an in-depth knowledge of research processes and evaluation is needed. The program emphasizes the study of the representation, storage, retrieval, use, and impact of information resources on society. Graduates will contribute to the knowledge base of the discipline and will take on leadership roles as scholars and administrators in the discipline and the profession.

For information on SOIS’s degree programs please see the SOIS website at uwm.edu/informationstudies (https://uwm.edu/informationstudies).

**Graduate**

- Information Science and Technology, MS (p. 932)
- Information Science and Technology, MS/Library and Information Sciences, MLIS (p. 934)
- Library and Information Science, MLIS (p. 951)
- Library and Information Science, MLIS/Anthropology, MS (p. 955)
- Library and Information Science, MLIS/English, MA (p. 957)
- Library and Information Science, MLIS/Geography, MA (p. 960)
- Library and Information Science, MLIS/Health Care Informatics, MS (p. 961)
- Library and Information Science, MLIS/History, MA (p. 963)
- Library and Information Science, MLIS/Information Science and Technology, MS (p. 965)
- Library and Information Science, MLIS/Language, Literature, and Translation, MA (p. 967)
- Library and Information Science, MLIS/Music, MM (p. 968)
- Library and Information Science, MLIS/Urban Studies, MS (p. 970)
- Library and Information Science, MLIS/Women’s & Gender Studies, MA (p. 971)
- Library and Information Science, MLIS: Archival Studies (p. 939)
- Library and Information Science, MLIS: Information Organization (p. 942)
- Library and Information Science, MLIS: Information Technology (p. 945)
- Library and Information Science, MLIS: Public Library (p. 948)

**Doctoral**

- Information Studies, PhD (p. 936)

**Certificates of Advanced Study**

- Advanced Study in Archives and Records Administration, Graduate Certificate (p. 927)
- Advanced Study in Digital Libraries, Graduate Certificate (p. 928)

**Requirements for Employment, Licensing, or Professional Organizations**

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

**Administration**

**Dean's Office**

Tomas Lipinski
Dean and Professor

Laretta Henderson
Associate Dean and Associate Professor

Karen Masetti-Moran
Assistant Dean (PREP)
Jarad Parker
Interim Assistant Dean (UBR)
Chad Zahrt
Assistant Dean (Student Affairs)
Herb Reichelt
Development Director

Student Services
M. Linda Barajas
Student Services Coordinator
Tobiah Deutsch
Senior Academic Advisor
Sharon Lake
Senior Academic Advisor
Twyla McGhee
Senior Academic Advisor
Angela Sadowsky
Senior Academic Advisor
Julie Walker
Alumni & Career Services Advisor
Brian Williams
Senior Academic Advisor

Administrative Services
Laura Meyer
Business Office Assistant
Rebecca Hall
Marketing Coordinator
Claire Schultz
Marketing
Dustin Schultz
IT Coordinator
Jim Schultz
Systems Administrator

Information Studies Courses

INFOST 101 Information Literacy
1 cr. Undergraduate.
Emphasis on techniques in information gathering for students to build expertise in exploring information sources and services. Provides foundation for independent life-long learning experiences.
Prerequisites: none.
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

INFOST 110 Introduction to Information Science and Technology
3 cr. Undergraduate.
Introduces basic issues in information science, including the nature of information, information policy, knowledge organization, information services, and the relationships between information technologies and society.
Prerequisites: none.
Course Rules: Counts as repeat of InfoSt 110X.
Current Offerings: http://uwm.edu/schedule

INFOST 120 Information Technology Ethics
3 cr. Undergraduate.
Comprehensive overview of the current ethical issues in information and technology use.
Prerequisites: none.
Course Rules: Counts as repeat of InfoSt 120X.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

INFOST 150 Introduction to Information Resources on the Internet
3 cr. Undergraduate.
Overview of the internet and its resources and services. Introduction to information retrieval and research skills on the internet.
Prerequisites: none.
Course Rules: Counts as repeat of InfoSt 150X.
General Education Requirements: HU
Last Taught: Spring 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

INFOST 210 Information Resources for Research
3 cr. Undergraduate.
Introduction to research processes necessary for effective, college-level, library research. Emphasizes analysis of research questions, development of search strategies, and critical evaluation of materials.
Prerequisites: none.
Course Rules: Counts as repeat of InfoSt 210X.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

INFOST 210 Information Resources for Research
3 cr. Undergraduate.
Introduction to research processes necessary for effective, college-level, library research. Emphasizes analysis of research questions, development of search strategies, and critical evaluation of materials.
Prerequisites: none.
Course Rules: Counts as repeat of InfoSt 210X.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

INFOST 230 Organization of Knowledge
3 cr. Undergraduate.
An interdisciplinary introduction to information and knowledge organization, including principles of conceptual systems in various disciplines and their relevance and application to knowledge organization.
Prerequisites: none.
Course Rules: Counts as repeat of InfoSt 230X.
Current Offerings: http://uwm.edu/schedule

INFOST 240 Web Design I
3 cr. Undergraduate.
Uses popular authoring tools to cover the basics of organizing information.
Prerequisites: none.
Course Rules: Counts as repeat of InfoSt 240X.
Current Offerings: http://uwm.edu/schedule
INFOST 250 Internet Communications and Information Transfer
3 cr. Undergraduate.
Special emphasis will be upon the Internet and information communications and new communication technologies influencing information services.
Prerequisites: InfoSt(L&I Sci) 110(P).
Last Taught: Summer 2016, Summer 2015, Summer 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

INFOST 291 Special Topics in Information Science and Technology:
3 cr. Undergraduate.
New developments and research in information science & technology.
Specific credits and any additional prereqs announced in Schedule of Classes whenever course is offered.
Prerequisites: none.
Course Rules: May be retaken w/chg topic to 9 cr max.
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

INFOST 297 Study Abroad:
3 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017, Fall 2016, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

INFOST 310 Human Factors in Information Seeking and Use
3 cr. Undergraduate.
Overview of human information needs, seeking, and processing, including human factors in the design, development and evaluation of information services.
Prerequisites: InfoSt 110(C).
Course Rules: Counts as repeat of InfoSt 310X.
Current Offerings: http://uwm.edu/schedule

INFOST 320 Web Design II
3 cr. Undergraduate.
Examination and utilization of advanced technologies and practices being employed in web usability and design.
Prerequisites: InfoSt 240(P).
Course Rules: Counts as repeat of InfoSt 491 Advanced Web Design & InfoSt 320X.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 325 Information Security I
3 cr. Undergraduate.
Introduction to issues and practices related to the protection of information and other digital assets.
Prerequisites: jr st.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 491 w/same topic.
Current Offerings: http://uwm.edu/schedule

INFOST 330 Electronic Information Retrieval Systems
3 cr. Undergraduate.
Basics of using electronic information retrieval systems, emphasizing internet and commercial services, in order to obtain information. Includes weekly laboratory sessions.
Prerequisites: InfoSt(L&I Sci) 210(P) & 110(P).
Course Rules: Counts as repeat of InfoSt 330X.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Summer 2015.
Current Offerings: http://uwm.edu/schedule

INFOST 340 Introduction to Systems Analysis
3 cr. Undergraduate.
Theories, principles, and tools for planning, organizing, assessing, and evaluating information. Emphasizes the importance of user’s perspective. Covers the various stages of systems analysis and outlines the appropriate methods for each stage.
Prerequisites: InfoSt 310(C) & 410(C).
Course Rules: Counts as repeat of InfoSt 340X.
Current Offerings: http://uwm.edu/schedule

INFOST 350 Introduction to Application Development
3 cr. Undergraduate.
Introduction to the fundamental concepts of application development. Basic application development concepts will be explained, analyzed, and practiced.
Prerequisites: InfoSt 110(C) or cons instr.
Course Rules: Counts as repeat of InfoSt 291 with topic Intro to Programming.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 350X Introduction to Application Development
3 cr. Undergraduate.
Introduction to the fundamental concepts of application development. Basic application development concepts will be explained, analyzed, and practiced.
Prerequisites: InfoSt 110(C) or cons instr.
Course Rules: Counts as repeat of InfoSt 291 with topic Intro to Programming.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 370 Data Analysis and Visualization for the Information Professional
3 cr. Undergraduate.
Introduction to data analysis and visualization using simple statistical analyses to create graphical depictions of data that can improve comprehension, communication, and decision making.
Prerequisites: satisfaction of GER QL Part A.
Course Rules: Counts as repeat of InfoSt 370X.
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
INFOST 375 Multimedia Web Design
3 cr. Undergraduate.
Fundamentals of interactive Web development and scripting, allowing
students to create Web animations and render interactivity of information
on the Web.
Prerequisites: InfoSt(L&I Sci) 240(P).
Course Rules: Counts as repeat of InfoSt 491 with topic of Flash & InfoSt
375X.
Current Offering: http://uwm.edu/schedule

INFOST 383 Native Mobile Applications
3 cr. Undergraduate.
Fundamentals of native mobile application development including
development environments, mobile OS considerations, and the potential
and limitations of mobile applications.
Prerequisites: none
Course Rules: Counts as repeat of InfoSt 491 w/similar topic.
Current Offering: http://uwm.edu/schedule

INFOST 385 Information Security II
3 cr. Undergraduate.
Advanced topics and practices in information security including social,
technological, educational and economic implications of information
security and privacy.
Prerequisites: InfoSt 325(P).
Course Rules: Counts as repeat of InfoSt(L&I Sci) 491 w/same topic.
Current Offering: http://uwm.edu/schedule

INFOST 399 Independent Study
1-3 cr. Undergraduate.
Guided readings or research under faculty supervision.
Prerequisites: jr st; 24 cr in IST major; cons instr.
Course Rules: May be retaken to max of 6 cr.
Current Offering: http://uwm.edu/schedule

INFOST 410 Database Information Retrieval Systems
3 cr. Undergraduate.
Introduces the design and development of different types of electronic
information systems, including database types, design issues, application
development, and software selection and evaluation.
Prerequisites: jr st.
Course Rules: Counts as repeat of InfoSt 410X.
Current Offering: http://uwm.edu/schedule

INFOST 425 Books, Paper, and Their Preservation
1 cr. Undergraduate/Graduate.
History, theory, and practical application of conservation solutions
currently practiced by professional conservators.
Prerequisites: jr st.
Current Offering: http://uwm.edu/schedule

INFOST 430 Multimedia Application Development
3 cr. Undergraduate.
This course covers the basic concepts of multimedia and their
applications in information services, including image representation and
processing and multimedia information delivery.
Prerequisites: InfoSt(L&I Sci) 310(P).
Last Taught: Fall 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offering: http://uwm.edu/schedule

INFOST 440 Web Application Development
3 cr. Undergraduate.
The interactive web design server interaction. Special emphasis on
database connectivity and application development on the Internet.
Prerequisites: InfoSt 240(P), InfoSt 350(P), or cons instr.
Course Rules: Counts as repeat of InfoSt 440X.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offering: http://uwm.edu/schedule

INFOST 465 Legal Aspects of Information Products and Services
3 cr. Undergraduate/Graduate.
Introduction to legal environment surrounding development and use of
information products and services, including intellectual property, and
issues specific to internet and other digital mediums.
Prerequisites: jr st.
Course Rules: Counts as repeat of InfoSt 465X.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offering: http://uwm.edu/schedule

INFOST 490 Senior Capstone
3 cr. Undergraduate.
Analysis, creation, development and presentation of an information
retrieval system project for an information organization.
Prerequisites: sr st; InfoSt(L&I Sci) 340(P) & 410(P).
Course Rules: Counts as repeat of InfoSt 490X.
Current Offering: http://uwm.edu/schedule

INFOST 491 Advanced Topics in Information Science & Technology
1-3 cr. Undergraduate.
Advanced examination of emerging developments and research in
information science & technology.
Prerequisites: jr st; additional prereq announced each offering.
Course Rules: May be retaken w/chg in topic to 15 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offering: http://uwm.edu/schedule

INFOST 495 Information Internship
1-3 cr. Undergraduate.
Field experience of 50-150 hours under faculty and field supervisor
guidance. Student must also complete a supervised field project.
Prerequisites: 12 cr in the IST major; cons instr.
Course Rules: May enroll in 2 sections in same term to 9 cr max.
Current Offering: http://uwm.edu/schedule
INFOST 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Program
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2017, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

INFOST 501 Foundations of Library and Information Science
3 cr. Undergraduate/Graduate.
Historical introduction to library and information science (LIS); outline of the role of information agencies in disseminating knowledge to users; overview of research in LIS.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

INFOST 511 Organization of Information
3 cr. Undergraduate/Graduate.
Introduction to basic concepts in the theoretical, practical, and technological aspects of information organization.
Prerequisites: jr st.
Course Rules: Not open for cr to students with cr in InfoSt(L&I Sci) 530.
Current Offerings: http://uwm.edu/schedule

INFOST 520 Managing Library Collections
3 cr. Undergraduate/Graduate.
Theory and practice of collection management across formats including selection tools and criteria, acquisition and evaluation of collections, deselection, preservation, and other collection development topics.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P) or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 521 Introduction to Reference Services and Resources
3 cr. Undergraduate/Graduate.
An investigation into reference services, reference interviews, and organization, including critical examination of basic reference sources.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P), 571(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 524 Management of Libraries and Information Services
3 cr. Undergraduate/Graduate.
The library/information center as a service organization. Management of the library/information center: planning, budgeting, decision making, leadership styles, motivation, communication, personnel and financial management.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 547 User-Centered Interaction Design
3 cr. Undergraduate/Graduate.
Introduction of human-computer interaction theories and design processes. Emphasis is on applied user experience (UX) design.
Prerequisites: sr st.
Course Rules: Jointly offered with & counts as repeat of CompSci 547.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

INFOST 557 Information Access and Retrieval
3 cr. Undergraduate/Graduate.
An overview of the concepts and theory related to information retrieval.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

INFOST 582 Introduction to Data Science
3 cr. Undergraduate/Graduate.
Introduces basic concepts, background, theoretical, practical and technological aspects of data science.
Prerequisites: jr st; or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 583 Survey of Information Security
3 cr. Undergraduate/Graduate.
Introduces information security concepts, issues, and technological practices related to privacy, trust, and protection of information and digital assets.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 584 Survey of Web and Mobile Content Development
3 cr. Undergraduate/Graduate.
Current best practices and theory for the development of content and applications across different platforms, systems, and devices emphasizing responsive design and frameworks.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 603 History of Books and Printing
3 cr. Undergraduate/Graduate.
The people, ideas, and events in the history of bookmaking from ancient times to the 1890’s.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 619 Topics in Information Organization:
1-3 cr. Undergraduate/Graduate.
Study of particular topics in Information Organization. Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: jr st & InfoSt(L&I Sci) 511(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

INFOST 622 Information Marketing
3 cr. Undergraduate/Graduate.
Concepts and principles of marketing and strategic planning as they apply to libraries and information agencies; case studies in information brokering and repackaging.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule
INFOST 627 Music Librarianship
3 cr. Undergraduate/Graduate.
Examination of materials used in obtaining music information and in establishing bibliographic control. Emphasis on reference, library instruction, collection management, and organization of music collections.
Prerequisites: jr st; InfoSt(L&I Sci) 511(531)(P), 571(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 632 Microcomputers for Information Resources Management:
3 cr. Undergraduate/Graduate.
Use and applications of microcomputers in various library and information management functions. Requires 1-2 hrs of weekly laboratory time.
Prerequisites: jr st & cons instr.
Last Taught: Summer 2011, Fall 2010, Summer 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

INFOST 642 School Library Media Programs and Resources
3 cr. Undergraduate/Graduate.
A study of the functions of the school library media center as an educational component including service, administration, collection development and utilization of materials.
Prerequisites: jr st; InfoSt(L&I Sci) 511(531)(P), 520(P), 571(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 644 School Library Practicum
1-3 cr. Undergraduate/Graduate.
Field experience of 210 hours in elementary and secondary school library media services under faculty and field supervisor guidance.
Prerequisites: jr st; InfoSt(L&I Sci) 511(531)(P), 520(P), 571(P) & 642(672)(C); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 645 Library Materials for Children
3 cr. Undergraduate/Graduate.
Introduction to print and media resources available in library collections; selection procedures, evaluation criteria, access and promotion of use of materials.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

INFOST 646 Library Materials for Young Adults
3 cr. Undergraduate/Graduate.
Criteria for evaluation and selection of materials for young adults, emphasizing current resources, techniques of reading guidance and book talks.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

INFOST 650 An Introduction to Modern Archives Administration
3 cr. Undergraduate/Graduate.
An introduction to the archives profession, archives administration, main uses of primary sources in academic research, and archival issues regarding the Internet and other technologies.
Prerequisites: jr st; InfoSt 501(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 655 Information and Records Management:
3 cr. Undergraduate/Graduate.
Principles and practices of information and records management: organizational information needs, retention, schedules, vital records protection, micrographics, records centers and records management policy.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

INFOST 656 Electronic Documents and Records Management
3 cr. Undergraduate/Graduate.
Advanced concepts, unique challenges, and on-going issues of electronic records management, including automated systems, information lifecycle management, access, legality, media stability, migration, and long-term preservation.
Prerequisites: jr st; InfoSt(L&I Sci) 655(P) or cons instr.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 691 w/same topic.
Last Taught: Spring 2017, Fall 2013, Fall 2012, Spring 2012.
Current Offerings: http://uwm.edu/schedule

INFOST 660 Information Policy
3 cr. Undergraduate/Graduate.
Explore various aspects of information policy including privacy, intellectual property, and intellectual freedom; covers applicable methodologies.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

INFOST 661 Information Ethics
3 cr. Undergraduate/Graduate.
Ethical traditions, concepts, and principles for the information professions in the global information society; ethical implications of information technologies.
Prerequisites: jr st & InfoSt(L&I Sci) 110(P); 501(P) or cons instr.
Course Rules: Counts as a repeat of InfoSt(L&I Sci) 691 with similar topic/title.
Current Offerings: http://uwm.edu/schedule

INFOST 670 Instructional Technologies
3 cr. Undergraduate/Graduate.
Traditional technologies, multimedia formats, and computer-based technologies for instructional purposes.
Prerequisites: jr st, InfoSt(L&I Sci) 632(P).
Course Rules: No degree cr for students with cr in InfoSt(L&I Sci) 668 or 669.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule
INFOST 674 The Search Engine Society
3 cr. Undergraduate/Graduate.
Critical examination of the role of search engines in contemporary society, including impact on information organization and retrieval, information institutions, information policy, law, and ethics.
Prerequisites: jr st; InfoSt(L&I Sci) 501(P) or cons instr.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.
Last Taught: Summer 2016, Summer 2015.
Current Offerings: http://uwm.edu/schedule

INFOST 675 Information Technology and Organizations
3 cr. Undergraduate/Graduate.
Topical seminar, exploring the relationship between information technology (IT) culture, organizations and the organization of work, cultures, subcultures; sociology of IT work; enterprise systems; knowledge management; data mining and IT careers.
Prerequisites: jr st.
Last Taught: Spring 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

INFOST 682 Digital Libraries
3 cr. Undergraduate/Graduate.
Concepts and technologies for development of digital libraries. Topics include tools for multimedia digitization, organization of digital resources, and evaluation of digital libraries and gateways.
Prerequisites: jr st & InfoSt(L&I Sci) 110(P), 501(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 685 Electronic Publishing and Web Design
3 cr. Undergraduate/Graduate.
An introduction to principles of visual communications related to electronic media with emphasis on website development, electronic documents, and production and dissemination of electronic information.
Prerequisites: jr st.
Course Rules: Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 691 Special Topics in Information Science:
1-3 cr. Undergraduate/Graduate.
An exploration of current topics in information science. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

INFOST 710 Comparative Bibliography
3 cr. Graduate.
Introduction to concepts of knowledge records (i.e. documents, information objects, etc.) and the artifacts that convey them. A survey of techniques of enumerative, descriptive, and analytical bibliography, and bibliometric domain analysis.
Prerequisites: grad st; InfoSt 511(531) (P); or cons instr
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 711 Cataloging and Classification
3 cr. Graduate.
Introduction to principles and practices of resource description, subject cataloging, and classification in a variety of library settings.
Prerequisites: grad st; InfoSt(L&I Sci) 511(531)(P) or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 712 Resource Description for Library Catalogs
3 cr. Graduate.
Application of standards and rules to the construction of tools for information retrieval, primarily digital resources and catalogs in library and information environments.
Prerequisites: grad st; L&I Sci 711(P) or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

INFOST 713 Subject Analysis in Library Catalogs
3 cr. Graduate.
Theories, principles, and major methods of subject cataloging and classification as practiced in interactive online environments.
Prerequisites: grad st; InfoSt(L&I Sci) 711(P) or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 714 Metadata
3 cr. Graduate.
Principles and application of metadata for networked information resource organization, representation, retrieval, and interoperability using a variety of schemes; focus on cultural heritage digital repositories.
Prerequisites: grad st; MLIS prereqs: InfoSt 501(P); InfoSt 571(R) or MSIST prereqs: InfoSt 582(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 715 Music Cataloging
3 cr. Graduate.
Bibliographic control of music materials. Descriptive cataloging, authority control, subject analysis and classification of music materials. Structure of music catalogs and requirements for effective retrieval.
Prerequisites: grad st; InfoSt 511(P)
Last Taught: Summer 2015.
Current Offerings: http://uwm.edu/schedule

INFOST 716 Thesaurus Construction
3 cr. Graduate.
Overview of thesaurus construction, vocabulary control and ontology. Design and construction of thesauri, including domain analysis, vocabulary extraction, concept clustering, ordering, structural relations, thesaurus maintenance.
Prerequisites: grad st; InfoSt(L&I Sci) 511(531)(P), 591(P).
Current Offerings: http://uwm.edu/schedule

INFOST 717 Information Architecture
3 cr. Graduate.
Introduction to information architecture and user experience design, focusing on designing user-centered organization, labeling, navigation, search, metadata, and knowledge organization systems for websites.
Prerequisites: grad st; InfoSt(L&I Sci) 511(531)(P).
Current Offerings: http://uwm.edu/schedule
INFOST 719 Advanced Topics in Information Organization
3 cr. Graduate.
Advanced study of a particular topic in Information Organization.
Prerequisites: grad st; InfoSt(L&I Sci) 511(P) or cons instr.
Course Rules: May be repeated w/ chg in topic to 9 cr. max.
Last Taught: Spring 2015, Fall 2014, Summer 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

INFOST 722 Entrepreneurship and Innovation for LIS Professionals
3 cr. Graduate.
Introduces entrepreneurial concepts and practices in the library and
information science professions, examines alternative career options, and
provides an opportunity to apply entrepreneurial methods and processes.
Prerequisites: InfoSt 501(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 734 Library Services and Resources for Adults
3 cr. Graduate.
Introduction to the wide range of services and materials with which the
library meets the needs of adult patrons.
Prerequisites: grad st; InfoSt(L&I Sci) 520(C), 571(P); or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 735 The Academic Library
3 cr. Graduate.
Administration of the college and university library, including a study of
budgets, personnel, building and collections requirements, and
cooperative programs.
Prerequisites: grad st; InfoSt(L&I Sci) 501(C), 511(531)(P), 520(C),
524(540)(R); & 571(C); or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 736 The Public Library
3 cr. Graduate.
Overview of issues and functions of american public libraries; including trends in
governance, program planning and evaluation, community
analysis, alternative funding, library use and users.
Prerequisites: grad st; InfoSt(L&I Sci) 501(C), 511(531)(P), 520(C),
524(540)(P); & 571(C); or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 738 Legal Information Sources and Services
3 cr. Graduate.
A study of legal sources of federal and Wisconsin law including the use of
law finders, statutes, cases and digests.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P)
Current Offerings: http://uwm.edu/schedule

INFOST 739 Digital Information Services
3 cr. Graduate.
Examination of major issues involved in digital information services.
Comparison of differences and similarities between digital and face-to-
face services, evaluation of DIS and current trends.
Prerequisites: grad st; InfoSt(L&I Sci) 682(P); 510(P); & 571(P).
Current Offerings: http://uwm.edu/schedule

INFOST 740 Information Literacy Instruction
3 cr. Graduate.
Concepts and principles invoked in teaching information literacy;
emphasis on organizing and developing courses and individual sessions.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P)
Current Offerings: http://uwm.edu/schedule

INFOST 741 Multicultural Children's Literature
3 cr. Graduate.
Exploration of children's literature representing racialized groups in the
United States; discussion will focus on evaluating and selecting material.
Prerequisites: grad st; InfoSt(L&I Sci) 645(P) or equivalent; or cons instr.
Course Rules: Counts as repeat of 691 w/ same topic.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

INFOST 745 Library Services for Children and Young Adults
3 cr. Graduate.
A foundation for developing, planning, and programming library services to
meet the needs and interests of children and young adults; attention to
content and evaluation of literature for these groups.
Prerequisites: grad st; InfoSt(L&I Sci) 645(P) or 646(C); or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 750 Arrangement and Description in Archives
3 cr. Graduate.
Development of the intellectual framework and critical evaluation skills
necessary for the arrangement and description of archival collections.
Prerequisites: grad st; InfoSt(L&I Sci) 650(C) or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

INFOST 752 Archival Outreach: Programs and Services
3 cr. Graduate.
An introduction to archival outreach and reference services for sustaining
an archival program committed to public service.
Prerequisites: grad st; InfoSt 650(C) or cons instr.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

INFOST 753 Preserving Information Media
3 cr. Graduate.
Examines all aspects of archival preservation of multiple media formats.
Includes discussions of preservation practice, policy and programming in
an archives.
Prerequisites: grad st; InfoSt(L&I Sci) 650(P) or cons instr.
Course Rules: InfoSt(L&I Sci) 791 with similar topic counts as repeat of
753.
Current Offerings: http://uwm.edu/schedule

INFOST 758 Technology Issues in Archives
3 cr. Graduate.
This course addresses technology issues facing archivists today and
its theoretical and practical implications in collection management,
arangement and description, reference, digitization, and electronic
records.
Prerequisites: grad st; INFOST 650; or cons instr.
Current Offerings: http://uwm.edu/schedule
INFOST 759 Fieldwork in Archives and Manuscripts
1-3 cr. Graduate.
Field experience of 50 to 150 hours in an archives or manuscript repository under faculty and field supervisor guidance. Student must also complete a supervised field project.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P), 524(540)(P); 650(681)(P) or History 775(P); or cons instr.
Course Rules: May be repeated for total of 3 cr.
Current Offerings: http://uwm.edu/schedule

INFOST 761 Information Privacy
3 cr. Graduate.
Graduate seminar on information privacy, undertaking a multi-faceted, multi-disciplinary examination of the relationships between information, technology, law and privacy in our digital society.
Prerequisites: grad st
Course Rules: Counts as repeat of 763 w/similar topic.
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule

INFOST 763 Topics in Information Policy
1-3 cr. Graduate.
An array of coursework specifically related to the social, ethical, economic, legal, and philosophical aspects of information.
Prerequisites: grad st
Course Rules: May be repeated w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

INFOST 774 Online Information Retrieval
3 cr. Graduate.
Study of bibliographic, non-bibliographic, full-text databases, including document delivery alternatives, evaluation and testing.
Prerequisites: grad st; InfoSt 501(P); 571(P); or cons instr.
Last Taught: Summer 2015, Summer 2013, Summer 2011, Summer 2010.
Current Offerings: http://uwm.edu/schedule

INFOST 780 XML for Libraries
3 cr. Graduate.
Overview of general markup languages; concepts and components of extensible markup language, and the future of publishing and libraries.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

INFOST 783 Information Storage and Retrieval
3 cr. Graduate.
Fundamental analysis and design principles and theories used in systems for the storage, processing, and retrieval of information.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

INFOST 784 Information Security Management
3 cr. Graduate.
Investigation of key aspects of information security management such as policy, risk analysis and management, education and awareness training, legal compliance, ethical and legal conduct.
Prerequisites: grad st; InfoSt 583(P).
Current Offerings: http://uwm.edu/schedule

INFOST 785 Database Management Systems for Information Professionals
3 cr. Graduate.
Study of microcomputer data base management software (DBMS) and information retrieval (IR) systems and their potential applications for information services.
Prerequisites: grad st
Course Rules: Counts as repeat of InfoSt(L&I Sci) 891 w/ same topic.
Last Taught: Spring 2018, Fall 2018, Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 786 Multimedia
3 cr. Graduate.
Multimedia and its applications in information systems and instructional environments. Students develop essential skills in the evaluation, creation, editing, and rendering of multimedia.
Prerequisites: grad st; cons instr
Course Rules: Counts as repeat of InfoSt(L&I Sci) 891 w/ same topic.
Current Offerings: http://uwm.edu/schedule

INFOST 787 Library Automation
3 cr. Graduate.
The current status of automation and network activities among libraries, including an exploration of problems and prospects.
Prerequisites: grad st; InfoSt(L&I Sci) 511(531)(C) or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 788 Information Systems: Analysis and Design
3 cr. Graduate.
Analysis, design, and evaluation of information systems. The information system mission, goals and objectives are used to develop measures for judging system effectiveness and efficiency.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P), 571(P) or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 789 Electronic Networking and Information Services:
3 cr. Graduate.
Outlines basic concepts of communication technology, electronic networking, and available information resources and services for information professionals.
Prerequisites: grad st; InfoSt(L&I Sci) 510(P), 571(P) or cons instr
Last Taught: Fall 2006, Fall 2005, Fall 2004, Fall 2003.
Current Offerings: http://uwm.edu/schedule

INFOST 790 Project Design, Implementation, and Evaluation
3 cr. Graduate.
Culminating experience for MSIST degree program comprising the design, implementation, and evaluation of a capstone project related to the MSIST degree tracks.
Prerequisites: grad st; MSIST degree candidates only; InfoSt 547(P), InfoSt 582(P), InfoSt 583(P), InfoSt 584(P), CompSt 701(P), CompSt 702(P), and CompSt 703(P), or cons instr.
Current Offerings: http://uwm.edu/schedule
INFOST 791 Topics in Library and Information Science
1-3 cr. Graduate.
Graduate level treatment of current topics in library and information science. Specific topic and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: grad st; InfoSt 501(P) or cons instr
Course Rules: May be repeated w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

INFOST 799 Research Methods in Information Studies
3 cr. Graduate.
Knowledge of research concepts, methods, and evaluation in library and information science, and applications of research in the information professions.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P); 511(531)(P); 571(P), or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 823 Seminar in International and Multicultural Information Services
3 cr. Graduate.
Implications of global and multicultural trends for information services. Creation, diffusion and use of information in cross-cultural settings.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P), 524(540)(P), or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 832 Government Information Sources and Services
3 cr. Graduate.
Availability, selection, and use of federal, state, and local documents; international organization documents; or documents of selected foreign governments.
Prerequisites: grad st & InfoSt(L&I Sci) 571(P).
Current Offerings: http://uwm.edu/schedule

INFOST 833 Business Information Sources and Services
3 cr. Graduate.
Information services and basic sources in business and competitive intelligence.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P).
Last Taught: Spring 2013, Fall 2009, Fall 2008, Summer 2008.
Current Offerings: http://uwm.edu/schedule

INFOST 834 Information Sources and Services in Science and Technology
3 cr. Graduate.
A study of the reference literature of science and technology; the structure of the literature; and services of the various information sources in those fields.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P).
Current Offerings: http://uwm.edu/schedule

INFOST 835 Information Sources and Services in the Health Sciences
3 cr. Graduate.
A survey of the basic sources used to locate information in the fields of medicine, nursing, allied health and health care administration, along with an introduction to the traditional & innovative services offered by health science libraries.
Prerequisites: grad st; InfoSt(L&I Sci) 571(P)
Current Offerings: http://uwm.edu/schedule

INFOST 845 Doctoral Seminar: Issues in Educational and Media Technology
3 cr. Graduate.
Interdisciplinary overview of research and theories in educational and media technology. Emphasizes cognitive bases of knowledge transfer and implications for instructional systems design and technology.
Prerequisites: grad st; cons instr; Educ 701(P)
Current Offerings: http://uwm.edu/schedule

INFOST 850 Seminar in Modern Archives Administration
3 cr. Graduate.
In-depth exploration of several aspects of archival work through extensive readings, discussions, practical exercises and a major seminar paper.
Prerequisites: grad st; InfoSt(L&I Sci) 650(681)(P) or cons instr
Course Rules: Counts as repeat of Hist 777.
Current Offerings: http://uwm.edu/schedule

INFOST 855 Advanced Appraisal
3 cr. Graduate.
An overview of the history of archival appraisal and manuscript collecting, surveys recent appraisal methodologies and theories, providing practical experience in the application of appraisal theory and assessing the value of organizational records.
Prerequisites: grad st; INFOST 650; or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 861 Seminar in Intellectual Freedom
3 cr. Graduate.
Principles and practices of intellectual freedom, as related to the information professions. Emphasizes, but is not limited to, current issues in the u.s.
Prerequisites: grad st; InfoSt(L&I Sci) 520(P) or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 862 Legal Issues for Library and Information Managers
3 cr. Graduate.
Legal issues arising in various library settings, including access rights, privacy and confidentiality, copyright, intellectual freedom and information liability and malpractice.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P) or cons instr
Current Offerings: http://uwm.edu/schedule
INFOST 863 Feminism, Librarianship, and Information
3 cr. Graduate.
The nature of librarianship as a profession, issues related to information and technology, and practices of information services from gendered perspectives using applicable feminist theories.
Prerequisites: grad st; InfoSt 501(P); InfoSt 591(P)
Current Offerings: http://uwm.edu/schedule

INFOST 864 Public Libraries: Philosophy, Policy, Politics
3 cr. Graduate.
Explores advanced concepts of the public library as a political institution in the public sphere. Includes investigations of legislative foundations, funding, governance and social engagement.
Prerequisites: grad st; L&I Sci 501(P), 591(P), 736(P) or cons instr
Course Rules: Counts as repeat of L&I Sci 891 w/ the same topic.
Current Offerings: http://uwm.edu/schedule

INFOST 888 Candidate for Degree:
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee assessed for 1 cr.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 891 Advanced Topics in Library and Information Science:
1-3 cr. Graduate.
Seminar in advanced current topics in library and information science. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st; cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 898 Master's Thesis
1-3 cr. Graduate.
Research and writing in consultation with SOIS thesis advisor for M.L.I.S. candidates pursuing the Thesis Option. May be repeated until completion and defense of the thesis.
Prerequisites: grad st; InfoSt(L&I Sci) 890(P) or equiv; cons of thesis advisor.
Current Offerings: http://uwm.edu/schedule

INFOST 899 Master's Independent Study
3 cr. Graduate.
Advanced study under faculty guidance, on a special aspect of library and information services. Regular faculty consultation and written report(s) required.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P), 511(531)(P), 571(P), 591(P), or cons instr. Max of 6 cr between InfoSt(L&I Sci) 899 and 999 may count toward the MLIS.
Current Offerings: http://uwm.edu/schedule

INFOST 901 Current Issues in Information Studies
3 cr. Graduate.
Current topical issues in information studies, socializes doctoral students to research culture, and analyzes current research topics in the field.
Prerequisites: grad st (doctoral st); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

INFOST 902 Theoretical Foundations in Information Studies
3 cr. Graduate.
This doctoral seminar introduces students to a range of fundamental theoretical foundations and models relevant to information studies.
Prerequisites: grad st (doctoral st) or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 903 Qualitative Research Methods
3 cr. Graduate.
Qualitative research design, data collection, data analysis tools and techniques as well as theory building in the context of information study research.
Prerequisites: grad st (doctoral st) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

INFOST 904 Quantitative Research Methods
3 cr. Graduate.
Quantitative research designs, data process and analysis, inferential statistical methods and theories, applications in information studies, and evaluation of quantitative research studies.
Prerequisites: grad st (doctoral st) or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 905 Mixed Methods Research for Information Studies
3 cr. Graduate.
Presents techniques for designing and executing mixed methods research in information studies as well as arguments for and against the use of mixed methods for theory building.
Prerequisites: Counts as repeat of INFOST 891 w/ same topic. Prereqs: For MLIS: InfoSt 799(591)(P) or equiv or cons instr For PhD: InfoSt 903(P); InfoSt 904(P); or cons of instr.
Current Offerings: http://uwm.edu/schedule

INFOST 910 Doctoral Seminar in the Organization of Information
3 cr. Graduate.
In-depth and critical study of the historical, philosophical, theoretical, and methodological foundation of the organization of information.
Prerequisites: grad st; InfoSt(L&I Sci) 901(P), at least six grad credits in the organization of information, or cons instr.
Current Offerings: http://uwm.edu/schedule

INFOST 960 Doctoral Seminar in Information Policy
3 cr. Graduate.
Examination of the conceptual, institutional, and practical foundations of information policy, law, and ethics.
Prerequisites: grad st; InfoSt(L&I Sci) 660(P), 661(P), 862(P), 901(P), or cons instr.
Last Taught: Fall 2017, Spring 2016, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule
INFOST 970 Doctoral Seminar in Information Retrieval
3 cr. Graduate.
Advanced research concepts, methods, and applications for information retrieval (IR) and its evaluation, and current topics of research interest to the IR community.
Prerequisites: grad st; InfoSt(L&I Sci) 671(P), 901(P), or cons instr
Current Offerings: http://uwm.edu/schedule

INFOST 990 Fieldwork in Library and Information Science Services
1-3 cr. Graduate.
Fieldwork experience of 50 to 150 hours under faculty and field supervisor guidance. Student must also complete a supervised field project.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P), 511(531)(P), 571(P); cons instr.
Course Rules: May be repeated to max of 6 cr with cons adviser.
Current Offerings: http://uwm.edu/schedule

INFOST 997 Preliminary Examinations
1-6 cr. Graduate.
Available for doctoral students taking preliminary exams. May be repeated twice to a max of 6 cr with cons adviser.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

INFOST 998 Doctoral Dissertation
1-3 cr. Graduate.
Doctoral dissertation research and advisement for information studies PhD candidates and PhD candidates with an emphasis in library and information science.
Prerequisites: doctoral candidacy & cons doctoral advisor.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

INFOST 999 Independent Research
1-3 cr. Graduate.
Primary research under faculty guidance, on a special aspect of library and information services. Regular faculty consultation and written research report(s) required.
Prerequisites: grad st; InfoSt(L&I Sci) 501(P), 511(531)(P), 571(P), 591(P), or cons instr.
Course Rules: Carries 3 cr limit for MLIS; may be repeated to 6 cr max for advanced certificate students.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Mohammed Aman</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Pittsburgh</td>
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<tr>
<td>Johannes Britz</td>
<td>Provost, Professor</td>
<td>DD, PhD</td>
<td>University of Pretoria, South Africa</td>
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<tr>
<td>Alexandra Dimitroff</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of British Columbia</td>
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<tr>
<td>Donald Force</td>
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<td>Matt Friedel</td>
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<td>Maria Haigh</td>
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<td>Shaun Hayes</td>
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<tr>
<td>Nadine Kozak</td>
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<td>University of California - San Diego</td>
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<tr>
<td>Joyce Latham</td>
<td>Associate Professor</td>
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<tr>
<td>Hur-Li Lee</td>
<td>Associate Professor</td>
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<tr>
<td>Tomas Lipinski</td>
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<td>Steven J. Miller</td>
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<tr>
<td>Xiangming Mu</td>
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<td>University of North Carolina at Chapel Hill</td>
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<tr>
<td>Hope Olson</td>
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<td>Wilhelm Peekhaus</td>
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<td>Jacques du Plessis</td>
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<td>Shana Ponelis</td>
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<td>Betsy Schoeller</td>
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<td>Lyndsay Smanz</td>
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<td>James Sweetland</td>
<td>Professor</td>
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<td>Kevin Trainor</td>
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<td>University of Chicago</td>
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<tr>
<td>Mary Wepking</td>
<td>School Library Media Coordinator</td>
<td>MLIS</td>
<td>University of Wisconsin - Milwaukee</td>
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<td>Dietmar Wolfram</td>
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<tr>
<td>Hong (Iris) Xie</td>
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<td>Jin Zhang</td>
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<tr>
<td>Michael Zimmer</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>New York University</td>
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</tbody>
</table>

**Contact Information**

SOIS Student Services  
NWQB, 3rd Floor  

**Phone:** (414) 229-4707  
https://uwm.edu/informationstudies/
ADVANCED STUDY IN ARCHIVES AND RECORDS ADMINISTRATION, GRADUATE CERTIFICATE

The Certificate of Advanced Study (CAS) in Archives and Records Administration is designed to help working professionals to update their knowledge in core areas of their responsibilities or to develop another specialty in a library-information area. It will enable students to either alter the direction of a career path or to enrich, update, and strengthen their skills and their knowledge of their field.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

Admission
A Master of Library and Information Science degree or a master’s degree in a closely related field such as computer science, educational technology, or history with a minimum of a 3.0 grade point average is required for admission.

Credits and Courses
The CAS candidate will complete 15 credits of coursework, planned in conjunction with his or her advisor, and approved by the Dean of the School of Information Studies as an individually designed program suited for the needs and professional objectives of the student.

A minimum of 12 credits must be taken in the School of Information Studies. Up to 3 credits may be taken in another school or department of UWM. Students may obtain up to three credits in independent study which is included as a part of the total approved program.

• See the list of School of Information Studies (http://catalog.uwm.edu/courses/infost) courses.

Certificate Requirements

Transfer Credit
No credits may be taken at an institution other than UWM.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
ADVANCED STUDY IN DIGITAL LIBRARIES, GRADUATE CERTIFICATE

The Certificate of Advanced Study (CAS) in Digital Libraries is designed to help working professionals update their knowledge and develop specialty relating to the acquisition, organization and maintenance of digital content, virtual collections and services. It will enable students to either alter the direction of a career path or to enrich, update, and strengthen their skills and their knowledge of their field.

Application Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

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

Admission
A master of library and information science degree or a master’s degree in a closely related field such as computer science or educational technology with a minimum of a 3.0 grade point average is required for admission.

Credits and Courses
The CAS candidate will complete 15 credits of coursework, planned in conjunction with his or her advisor, and approved by the Dean of the School of Information Studies as an individually designed program suited for the needs and professional objectives of the student.

A minimum of 12 credits must be taken in the School of Information Studies.

No thesis is required, but students may obtain up to 3 credits in independent research which is included as a part of the total approved program.

• See the list of School of Information Studies (http://catalog.uwm.edu/courses/infost) courses.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

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

Information science, on which the Information Science and Technology program is based, is the study of the organization, storage, retrieval, dissemination, and use of information. Information technology (IT) is the collection of tools that make it possible to access and use information. Some graduates will go directly into jobs in business and industry sectors that rely heavily on information as a raw material or as a product. Other graduates may go on to graduate study in library and information science, information management, computer science, or telecommunications.

Career Opportunities

The Bachelor of Science in Information Science and Technology will give students a head start on any number of careers in the information industry:

- Information Architect
- Business Information Coordinator
- Network Manager
- IT Consultant
- Web Designer
- Technology Trainer
- Multimedia Specialist
- Human-Computer Interface Designer
- Software/Systems Developer
- Technical Writer
- Database Developer
- Digital Library Specialist
- E-Commerce Web Administrator

IST Mission Statement

The Bachelor of Science in Information Science and Technology aims to prepare graduates who are information and technology literate, and who are able to effectively deal with the theory, organization, management, and implementation of information tools and associated technologies in a range of interdisciplinary environments. In addition, we will:

- Educate students, including those who might not traditionally consider an educational path in information and technology, especially women and minorities.
- Open rewarding career opportunities by allowing students to combine the IST program with another area of study.
- Serve the state of Wisconsin by way of education, community participation, and collaborative research partnerships.
- Expand relationships with industry to develop and advance research in Information Science and Technology and its applications in interdisciplinary environments.
- Produce graduates who will become leaders in the growing information economy of Wisconsin and the world.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
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<td>Area I: UWM Distribution Requirements</td>
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<tr>
<td>Area II: Major Requirements</td>
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<td>Area III: Information Studies Electives</td>
<td>15</td>
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<td>Area IV: BSIST Cross-functional Electives</td>
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<td>Area V: General Electives</td>
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<tr>
<td>Total Credits</td>
<td>120</td>
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</table>

Related Area of Study

Each student will work with his/her advisor to select general electives, including related areas of study that are appropriate to his/her career goals and to complete the 120 total credit requirements for the BSIST degree. Because of its interdisciplinary and cross-functional nature, the BSIST program allows students to apply the study of the concepts and tools of information science, information architecture, and information technology to one or more related areas of study. The related area of study is a set of courses outside of the BSIST major, normally a minor or certificate in another field of study, typically including 18-22 credits. In some cases, students may choose to study two related areas as part of their BSIST program.

Related Areas of Study Selected List: Computer Science; Health Care Administration; Art & Design; General Business; Library & Information Science; Philosophy; Global Studies; Intelligent Systems; Communication; Digital Arts & Culture; Mass Communication & Journalism

With the help of their advisor, students create and customize their own related area of study. This may be credit-bearing courses that students will take to prepare for certification examinations such as Microsoft certifications, CISCO, etc., or a customized selection of courses chosen by students that will sharpen their skills in one or more selected areas of study.

Completing the Degree

The BSIST degree includes a total of 120 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<td>Area II: Major Requirements</td>
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<td>INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
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<td>INFOST 230</td>
<td>Organization of Knowledge</td>
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<td>INFOST 240</td>
<td>Web Design I</td>
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<td>INFOST 310</td>
<td>Human Factors in Information Seeking and Use</td>
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<td>INFOST 340</td>
<td>Introduction to Systems Analysis</td>
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<tr>
<td>INFOST 350</td>
<td>Introduction to Application Development</td>
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<td>INFOST 410</td>
<td>Database Information Retrieval Systems</td>
<td>3</td>
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<td>INFOST 440</td>
<td>Web Application Development</td>
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<tr>
<td>INFOST 490</td>
<td>Senior Capstone</td>
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Area III: Information Studies Electives
Select five additional Information Studies courses at the 300, 400, 500, or 600 level or equivalent coursework  

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**Area IV: BSIST Cross-functional Electives**

Select 15 credits

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**Area V: General Electives**

Select 42 General Electives, including Associate Area(s) of Study

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**Total Credits**

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<tbody>
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<td>120</td>
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</table>

1. Learn more about the General Education Requirements (p. 33).

To continue and graduate in the BSIST program, each student must maintain a grade point average of at least 2.5 in the major and a cumulative grade point average of at least 2.0 on all credits counted toward the degree.

**Four-Year Graduation Guarantee**

If a student satisfies all the obligations described in the Four-Year Graduation Guarantee, the student will be able to complete an undergraduate degree within four years. If the undergraduate degree completion in four years is delayed by the unavailability of courses, then UWM will relieve the student of the financial tuition burden for courses still required for graduation.

**IST Core Competencies**

The successful BSIST student will demonstrate understanding of the following:

- theoretical nature of information science and information technologies;
- organization and architecture of information based on understanding of the context, the content, and the user needs;
- user-centered information system and service development;
- information storage and retrieval systems;
- management of information, including the processes to enable the flow of information; and
- use of information and communication technology for managing and organizing information and content.

**Admission to the BSIST Program**

Standard UWM admission policies for freshmen and transfer students apply. Students may begin the program as freshmen or after completing several semesters as undeclared or other majors. Students may begin as transfer students from another accredited college or university or as students returning to get a second degree.

In addition to being available during standard class times, the BSIST degree is available fully online to serve students both on and off campus.

**Entrance Guidelines**

Students who meet the standard University admission requirements are admissible to the School of Information Studies. The same criteria for acceptance are applied to in-state and out-of-state students. For undergraduate admission requirements, see the Admission (p. 12) section of this catalog.

**Advising**

Students accepted by UWM who declare an interest in the IST program will be assigned a SOIS advisor. Students are expected to work closely with their IST advisor to tailor a program of electives to best suit their interests and career goals. IST students may also wish to explore minors or certificates in related areas such as computer science or technical writing. For information on Academic Advising for IST majors, please visit the SOIS Academic Advising (http://uwm.edu/informationstudies/resources/advising) page.

**Career Services**

Whether you are a recent graduate just starting your career or an alumni looking for a change, the School of Information Studies (SOIS) is committed to supporting students and alumni throughout their careers. Visit our career resources (http://uwm.edu/informationstudies/resources/career) page for career related resources and join us throughout the year for career workshops and networking opportunities.

**Honors in the Major**

Honors in the major are granted to students who earn a GPA of 3.500 or above for courses in the major.

High Honors in the Major are granted to students who earn a GPA of 3.750 or above for courses in the major.

**Honors in the School of Information Studies**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
INFORMATION SCIENCE AND TECHNOLOGY, MINOR

For undergraduate students in other degree programs outside the School of Information Studies, SOIS also offers an undergraduate minor in Information Science and Technology (IST).

Students who wish to become information and technology literate while pursuing studies in their major areas are candidates. For example, the minor is attractive to students majoring in the humanities, arts, and social sciences where the combination of their major field with the IST minor will help prepare students for careers in information-related work. Fields that combine well with the IST minor include English (particularly Technical Writing), Modern Languages, Communication, Mass Communication, Psychology, Sociology, and the arts. It should also be of interest to students majoring in professional fields such as Computer Science and Business Administration where the courses from IST will complement their major.

Requirements

Fulfillment of the minor entails completion of 18 credits from the following list of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>INFST 110</td>
<td>Introduction to Information Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>6 credits from the following IST Core options:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>INFST 230</td>
<td>Organization of Knowledge</td>
<td></td>
</tr>
<tr>
<td>INFST 240</td>
<td>Web Design I</td>
<td></td>
</tr>
<tr>
<td>INFST 310</td>
<td>Human Factors in Information Seeking and Use</td>
<td></td>
</tr>
<tr>
<td>INFST 340</td>
<td>Introduction to Systems Analysis</td>
<td></td>
</tr>
<tr>
<td>INFST 350</td>
<td>Introduction to Application Development</td>
<td></td>
</tr>
<tr>
<td>INFST 410</td>
<td>Database Information Retrieval Systems</td>
<td></td>
</tr>
<tr>
<td>INFST 440</td>
<td>Web Application Development</td>
<td></td>
</tr>
<tr>
<td>INFST 490</td>
<td>Senior Capstone</td>
<td></td>
</tr>
<tr>
<td>9 credits:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>9 additional credits to be taken from INFST 300-level or above coursework</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18
INFORMATION SCIENCE AND TECHNOLOGY, MS

The Master of Science in Information Science and Technology (MSIST) is a professional graduate degree program for those who seek advanced training to meet the ever increasing need for information technology (IT) professionals. The degree will be composed of 36 credit hours and will supplement our Bachelors of Science in Information Science and Technology.

The MSIST will provide essential skills and knowledge in the following areas:

- **User interface (UI) design and human computer interaction (HCI):** Equips students with the necessary knowledge and abilities to develop interaction design that supports and enables users of the mobile applications.
- **Web and mobile design and development:** Equips students with advanced technical knowledge and skills to develop mobile applications.
- **Data management and data science:** Provides students with advanced knowledge and skills to manage data sets generated by applications.
- **Information security:** Focuses on techniques on ensuring the security of all data captured, stored and analyzed through applications.
- **Generalist:** For students who require a customized program to meet their educational and employment needs.

### Admission Requirements

#### Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

#### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

- A resume.

#### Prerequisites

Preference will be given to those students who have a baccalaureate degree in information sciences, computer information systems, computer science, engineering, statistics, or a related field. Students with sufficient background gained through work experience or professional training in information technologies, such as networks, web services, and database development, will also be considered for admission to the program. Those who have neither of the aforementioned qualifications will be encouraged to take the following prerequisites, or their equivalents, before taking related courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 240</td>
<td>Web Design I</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 410</td>
<td>Database Information Retrieval Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 440</td>
<td>Web Application Development</td>
<td>3</td>
</tr>
</tbody>
</table>

If taken, these courses must have been completed within the last five years with a grade of B or better (B- not acceptable).

### Credits and Courses

The program requires 36 graduate-level credits, including eight, 3-credit core courses and 12 credits of electives.

#### Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>INFOST 547</td>
<td>User-Centered Interaction Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 582</td>
<td>Introduction to Data Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 583</td>
<td>Survey of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 584</td>
<td>Survey of Web and Mobile Content Development</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 701</td>
<td>Mathematical &amp; Computing Fundamentals for IT Professionals</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 702</td>
<td>Software Development in Python</td>
<td>3</td>
</tr>
<tr>
<td>COMPST 703</td>
<td>Software Engineering Principles</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Culminating Course</td>
<td>3</td>
</tr>
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</table>

#### Electives

Select 12 credits from one of the transcript designated tracks below

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<thead>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
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<tr>
<td>INFOST 670</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 685</td>
<td>Electronic Publishing and Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 583</td>
<td>Emerging Digital Technology</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 782</td>
<td>Visualization 1</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 783</td>
<td>Visualization 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 412</td>
<td>Advanced Digital Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 423</td>
<td>Experimental Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 496</td>
<td>Sequence and Structure</td>
<td>3</td>
</tr>
<tr>
<td>ART 929</td>
<td>Advanced Research-Design &amp; Digital Media</td>
<td>1-4</td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 522</td>
<td>Computer Game Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 713</td>
<td>Computer Vision</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 718</td>
<td>Advanced Computer Graphics: Modeling and Animation</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 737</td>
<td>Software Project Management</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 743</td>
<td>Intelligent User Interfaces</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 747</td>
<td>Principles &amp; Practices of User Interface Design</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td>4</td>
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Total Credits: 36
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 804</td>
<td>Advanced Remote Sensing (Previously numbered Geog 703)</td>
<td>3</td>
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### Electives for the Web and Mobile Application Design Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 302</td>
<td>Art and Design Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ART 524</td>
<td>Professional Practice in Design</td>
<td>3-6</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming (G)</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications (Client Side)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
</tbody>
</table>

### Electives for the Information Security Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 761</td>
<td>Information Privacy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
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</table>

### Electives for the Data Science Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 714</td>
<td>Metadata</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 716</td>
<td>Thesaurus Construction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 719</td>
<td>Advanced Topics in Information Organization</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 780</td>
<td>XML for Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 783</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 785</td>
<td>Database Management Systems for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>HCA/COMPSCI 744</td>
<td>Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
</tbody>
</table>

### Electives for the Generalist Track

- Select 12 credit hours with the faculty advisor’s guidance

### Program Requirements

**Time Limit**

All degree requirements must be completed within seven years from the date of initial enrollment in the Master’s program.
INFORMATION SCIENCE AND TECHNOLOGY, MS/LIBRARY AND INFORMATION SCIENCES, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.

• The MLIS portion of the coordinated degrees can be completed online.

• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MSIST/MS Information Science and Technology

A Master of Science in Information Science and Technology/Master of Library and Information Science program prepares students for positions in information technology in all types of libraries, 54 credits.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Credits and Courses

Degree Requirements

Thirty hours will be required for the MLIS and twenty-four for the MSIST. SOIS reduces the MLIS by 6 credit hours of electives in consideration of another master’s degree. The requirements for the MSIST are its 8 core courses for 24 hours. In sum, for 54 credit hours a student can complete both the MLIS and MSIST degrees. Degrees will be awarded simultaneously.

• See the MSIST (p. 932) page and the MLIS (http://uwm.edu/graduateschool/library-information-science/#page) page for more information.

Information Science and Technology MS

The program requires 36 graduate-level credits, including eight, 3-credit core courses and 12 credits of electives.

### Electives

#### Electives for the User Interaction & Human Computer Interaction Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 670</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 685</td>
<td>Electronic Publishing and Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 583</td>
<td>Emerging Digital Technology</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 782</td>
<td>Visualization 1</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 783</td>
<td>Visualization 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 412</td>
<td>Advanced Digital Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 423</td>
<td>Experimental Typography</td>
<td>3</td>
</tr>
<tr>
<td>ART 496</td>
<td>Sequence and Structure</td>
<td>3</td>
</tr>
<tr>
<td>ART 929</td>
<td>Advanced Research-Design &amp; Digital Media</td>
<td>1-4</td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 522</td>
<td>Computer Game Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 713</td>
<td>Computer Vision</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 718</td>
<td>Advanced Computer Graphics: Modeling and Animation</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 737</td>
<td>Software Project Management</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 743</td>
<td>Intelligent User Interfaces</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 747</td>
<td>Principles &amp; Practices of User Interface Design</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
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<tr>
<td>GEOG 804</td>
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### Electives for the Web and Mobile Application Design Track

<table>
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<tr>
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<th>Title</th>
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<tbody>
<tr>
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<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 302</td>
<td>Art and Design Workshop:</td>
<td>3</td>
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<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
<td>3-6</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming (G)</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications (Client Side)</td>
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</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
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### Electives for the Information Security Track

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<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 761</td>
<td>Information Privacy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
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### Electives for the Data Science Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 714</td>
<td>Metadata</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 716</td>
<td>Thesaurus Construction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 719</td>
<td>Advanced Topics in Information Organization</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 780</td>
<td>XML for Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 783</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 785</td>
<td>Database Management Systems for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>HCA/COMPSCI 744</td>
<td>Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>HCA 760</td>
<td>Biomedical and Healthcare Terminology and Ontology</td>
<td>3</td>
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### Electives for the Generalist Track

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<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 302</td>
<td>Art and Design Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
<td>3-6</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming (G)</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications (Client Side)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
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### Electives for the Generalist Track

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</table>

### Basic Required MLIS Courses

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
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<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>12</td>
</tr>
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</table>

### Other MLIS courses

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<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>INFOST 780</td>
<td>XML for Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 783</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 785</td>
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<td>3</td>
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### Important

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

PhD Overview

The Doctor of Philosophy in Information Studies prepares graduates for academic and professional careers where an in-depth knowledge of research processes and evaluation is needed. The program emphasizes the study of the representation, storage, retrieval, use, and impact of information resources on society. Graduates will contribute to the knowledge base of the discipline and will take on leadership roles as scholars and administrators in the discipline and the profession.

SOIS Overview

Related Certificates

- Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate)

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

Students begin the Information Studies doctoral program in the fall. Applications are accepted only for the fall semester.

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program in regular status:

- Have a cumulative GPA in coursework for the Master's degree of at least 3.5 and an undergraduate GPA of 3.0. Applicants possessing a Master of Library and Information Science, or a master's degree in an allied discipline, are encouraged to apply.
- Submit verbal and quantitative scores for the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/gre) taken within the past five years.
- Submit three letters of recommendation from qualified persons who can attest to the applicant's aptitude for doctoral study. At least one letter must be from an academic.
- Submit a writing sample that demonstrates the applicant's analytical and critical thinking skills. This may take the form of a published research paper, term paper from a previous graduate program, or earlier completed thesis.
- Applicants are encouraged to bring at least two years of relevant professional experience prior to entering the Ph.D. program.

Applicants lacking the requisite GPA or academic area may be considered for admission on probation, and may be required to complete preparatory coursework.

Credits and Courses

Students will need to complete a minimum of 30 credits of approved coursework at the 700-level or higher.

Standard Graduate School minimum and maximum credit loads (http://uwm.edu/graduateschool/academic-policies-procedures) apply. Full-time students are discouraged from taking more than 9 credits per semester.

Students, along with their major professor, should develop a plan for coursework that will prepare the student to carry out research in their areas of interest. Although an identified dissertation topic is not required upon entry to the program, students should begin to formulate ideas for potential topics as soon as possible thereafter.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tr>
<td>INFOST 901</td>
<td>Current Issues in Information Studies</td>
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<tr>
<td>INFOST 910</td>
<td>Doctoral Seminar in the Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 960</td>
<td>Doctoral Seminar in Information Policy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 970</td>
<td>Doctoral Seminar in Information Retrieval</td>
<td>3</td>
</tr>
</tbody>
</table>
Distance students to participate synchronously with local students and exam defense, dissertation proposal defense, and formal defense of physically present for all major program milestones, including preliminary long orientation on campus at the beginning of the program, and be encouraged to apply. Such students will be required to attend a week-long orientation on campus at the beginning of the program and be physically present for all major program milestones, including preliminary exam defense, dissertation proposal defense, and formal defense of the dissertation. SOIS doctoral seminars will be streamed live online for distance students to participate synchronously with local students and faculty, and students will be responsible for meeting all other program requirements via online courses or other approved means. Students begin the Information Studies doctoral program in the fall. Application materials for distance option students is June 30. An applicant whose file is incomplete will be asked to contact the Graduate School. Application requirements are the same for traditional and distance students. Distance students must also meet the UWM Graduate School residency requirements; physical residency in Milwaukee is not necessary.

**Preliminary Examinations / Preparatory Essays**

Students will be required to complete the doctoral preparatory essays towards the end of their coursework. The purpose of the essays will be to demonstrate the student's mastery of coursework and relevant subject matter and the student's qualifications to proceed with dissertation research. The essays will consist of three areas: research methods, the major area, and the minor area. The essays will represent non-credit research papers based on topics assigned by the student's doctoral committee, which will consist of at least three members, including one representing the student's minor. The timeline for completion of the essays will be at the committee's discretion. Based on the committee's assessment of the essays, students will be recommended for advancement toward the Ph.D. or academic dismissal from the program. If the essay results are found to be unsatisfactory, the student will have one opportunity to repeat the essay in a future semester after conferment with the major professor on how to prepare for the next attempt.

The preparatory essays must be successfully completed within four years of initial enrollment.

**Dissertation Proposal**

A doctoral committee of five faculty members will be in place by the time the student undertakes her/his dissertation proposal. The committee will consist of three members from the School of Information Studies, a faculty member in an allied area from outside the School, and a fifth member who may come from SOIS or another discipline. All doctoral committees shall be chaired by a major professor from the SOIS graduate faculty. Approval of the dissertation proposal, which ordinarily should occur within two semesters after successfully passing the preparatory essays, allows a student to proceed towards completion of the dissertation.

**Dissertation**

The candidate must write a dissertation which demonstrates her/his ability to formulate a research topic and pursue independent and original investigation that contributes to the knowledge base of the field.

**Dissertation Defense**

After submission of a reading copy of the dissertation to the student's doctoral committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate's oral remarks, the dissertation committee will vote on passing the candidate's dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

Approval of the dissertation by the student's doctoral committee satisfies a final requirement for the Ph.D. degree in Information Studies from the UWM-SOIS.

**Time Limit**

All components of the Ph.D. program must be completed within seven years of matriculation.

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**Research Methods and Design**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>INFOST 903</td>
<td>Qualitative Research Methods</td>
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<tr>
<td>INFOST 904</td>
<td>Quantitative Research Methods</td>
<td>3</td>
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</table>

Select a minimum of 3 additional credits in approved research methods coursework.

**Specialized Area**

Select a minimum of 9 credits related to the specialized area(s) of the dissertation topics from the following:

- Approved existing graduate courses within SOIS
- Advanced special topics classes offered within SOIS at the 700-level or higher
- INFOST 999 Independent Research
- Courses offered outside of SOIS

**Electives**

Select 3 credits either within or outside of SOIS with approval of the major professor.

**Total Credits**

The student must meet minimum Graduate School residence requirements of one continuous academic year of full-time graduate studies at UWM; physical residency in Milwaukee is not necessary. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master's level.

**Distance Students**

Distance students (not located near Milwaukee, Wisconsin) are encouraged to apply. Such students will be required to attend a week-long orientation on campus at the beginning of the program, and be physically present for all major program milestones, including preliminary exam defense, dissertation proposal defense, and formal defense of the dissertation. SOIS doctoral seminars will be streamed live online for distance students to participate synchronously with local students and faculty, and students will be responsible for meeting all other program requirements via online courses or other approved means. Students begin the Information Studies doctoral program in the fall. Application materials for distance option students is June 30. An applicant whose file is incomplete will be asked to contact the Graduate School. Application requirements are the same for traditional and distance students. Distance students must also meet the UWM Graduate School residency requirements; physical residency in Milwaukee is not necessary.

**Program Requirements**

**Major Professor as Advisor**

Unless a student specifically requests a particular faculty member, all doctoral students initially are assigned an “interim” advisor. After the completion of 12 credits, a student is required to designate a faculty member from an approved list of major professors with specialized interests compatible with those of the student to act as the major professor. The major professor is expected to assist the student in planning the remainder of the program of studies, chair the student's preliminary examination committee, supervise the completion of the Ph.D. dissertation, and conduct the dissertation defense meeting. All students should consult the program handbook for additional details on school policies and procedures.

**Residence**

The student must meet minimum Graduate School residence requirements of one continuous academic year of full-time graduate studies at UWM; physical residency in Milwaukee is not necessary. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master's level.

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**Time Limit**

All components of the Ph.D. program must be completed within seven years of matriculation.
Additional Information for Doctoral Students
For additional information on policies and procedures for doctoral students, please see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements) page.
LIBRARY AND INFORMATION SCIENCE MLIS: ARCHIVAL STUDIES

MLIS: Archives Concentration
Archival studies offers you the opportunity to investigate the processes that shape the historical record. By studying how records are selected for preservation, arranged and described, and made accessible to the public, archives students have a unique opportunity to research a field that mixes history, ethics, technology and philosophy. Through this study, you are able to research the influences that help determine how society views itself.

The Archives Program provides a range of professional development opportunities, as well as alumni and other professional connections around the country in order to ensure that you are competitive in the job market and have a well-rounded view of the complex issues facing archives. Completion of this program provides you with a graduate degree that will help you gain employment at a variety of archives throughout the United States.

Related Certificates
• Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate)
• Certificate of Advanced Study in Digital Libraries (http://uwm.edu/graduateschool/digital-libraries-certificate)

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

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2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
An applicant must apply to both the Graduate School and the School of Information Studies.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

1. Submission of scores on the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Miller Analogies Test (MAT). (GRE or MAT scores are currently required of domestic applicants and will be required of international applicants beginning with the summer 2004 admission term.) The test scores should be sent directly to SOIS. The GRE/MAT requirement will be waived for applicants whose overall undergraduate GPA, as calculated by the UWM Graduate School, is at least 3.00, or who already hold another master's degree or Ph.D., or the equivalent.
2. Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.
3. Two letters of recommendation from persons who can testify to the applicant's likelihood of success in the master's program in library and information science. References from former teachers or employers are preferred.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (http://uwm.edu/graduateschool/admission) section of this Web site.

Faculty Mentor
Each student is assigned a faculty mentor in the School of Information Studies at the time of admission to the master's program. The name of the faculty mentor is included in the student's letter of admission.
and may also be obtained from an academic advisor in the School of Information Studies.

**Credits and Courses**

The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements.

The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 12

**Minimum Grade Requirement in the Required Courses**

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

**Culminating Experience Requirement in Library and Information Science**

Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

**Thesis Option**

Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student's thesis advisor, but is not required to do so. It is the student's responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

**Archives Concentration**

Students pursuing the Archives Concentration must take 15 credits of coursework in archives as electives within the overall MLIS program. To pursue the Archival Studies Concentration students must be admitted into the MLIS program and must submit the Archival Studies Concentration Declaration of Intent form (see SOIS website for details). This will allow the program coordinator to track your progress and communicate with you.

The Archival Studies concentration requires 15 credits of coursework planned in consultation with the student’s advisor. Credits for the concentration count as electives for the MLIS. The courses that qualify for the concentration are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select at least four of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 655</td>
<td>Information and Records Management:</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 656</td>
<td>Electronic Documents and Records Management</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>INFOST 682</td>
<td>Digital Libraries</td>
<td></td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science: (with appropriate subtitle)</td>
<td></td>
</tr>
<tr>
<td>INFOST 714</td>
<td>Metadata</td>
<td></td>
</tr>
<tr>
<td>INFOST 740</td>
<td>Information Literacy Instruction</td>
<td></td>
</tr>
<tr>
<td>INFOST 750</td>
<td>Arrangement and Description in Archives</td>
<td></td>
</tr>
<tr>
<td>INFOST 752</td>
<td>Archival Outreach: Programs and Services</td>
<td></td>
</tr>
<tr>
<td>INFOST 753</td>
<td>Preserving Information Media</td>
<td></td>
</tr>
<tr>
<td>INFOST 758</td>
<td>Technology Issues in Archives</td>
<td></td>
</tr>
<tr>
<td>INFOST 759</td>
<td>Fieldwork in Archives and Manuscripts</td>
<td></td>
</tr>
<tr>
<td>INFOST 791</td>
<td>Topics in Library and Information Science: (with appropriate subtitle)</td>
<td></td>
</tr>
<tr>
<td>INFOST 850</td>
<td>Seminar in Modern Archives Administration</td>
<td></td>
</tr>
<tr>
<td>INFOST 855</td>
<td>Advanced Appraisal</td>
<td></td>
</tr>
<tr>
<td>INFOST 891</td>
<td>Advanced Topics in Library and Information Science: (with appropriate subtitle)</td>
<td></td>
</tr>
<tr>
<td>INFOST 999</td>
<td>Independent Research</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended (does not count towards concentration)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 603</td>
<td>History of Books and Printing</td>
</tr>
</tbody>
</table>

1 Optional, but highly recommended for those without experience working in an archival collection.
LIBRARY AND INFORMATION SCIENCE MLIS: INFORMATION ORGANIZATION

MLIS: Information Organization Concentration
Preparing students for careers in cataloging, indexing, metadata work, or archival organization in a wide variety of settings, including libraries, archives, museums, private corporations, government agencies, and other organizations, the Information Organization (IO) Concentration provides a way for you to formally focus your studies on information organization within the context of your MLIS degree program and its requirements. The Concentration includes a mixture of theoretical and practical knowledge and skills, and will be posted on your transcript upon degree conferral.

Related Certificates
- Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate)

The School of Information Studies prepares students for careers in libraries and the information professions. The School’s array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

Goals of the school are:
1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Application
An applicant must apply to both the Graduate School and the School of Information Studies.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

1. Submission of scores on the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Miller Analogies Test (MAT). (GRE or MAT scores are currently required of domestic applicants and will be required of international applicants beginning with the summer 2004 admission term.) The test scores should be sent directly to SOIS. The GRE/MAT requirement will be waived for applicants whose overall undergraduate GPA, as calculated by the UWM Graduate School, is at least 3.00, or who already hold another master’s degree or Ph.D., or the equivalent.
2. Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.
3. Two letters of recommendation from persons who can testify to the applicant’s likelihood of success in the master’s program in library and information science. References from former teachers or employers are preferred.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (http://uwm.edu/graduateschool/admission) section of this Web site.

Faculty Mentor
Each student is assigned a faculty mentor in the School of Information Studies at the time of admission to the master’s program. The name of the faculty mentor is included in the student’s letter of admission and may also be obtained from an academic advisor in the School of Information Studies.

Credits and Courses
The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master’s or
doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 12

**Minimum Grade Requirement in the Required Courses**
The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

**Culminating Experience Requirement in Library and Information Science**
Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

**Thesis Option**
Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

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Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

**Information Organization Concentration**
Students pursuing the Information Organization Concentration must take 15 credits of coursework from the list of qualifying courses as electives within the overall MLIS program.

The Information Organization Concentration requires a minimum of 15 credits of coursework taken from the list of qualifying courses below. The student's concentration program must be approved by the SOIS Information Organization Curriculum Coordinator. A fieldwork experience of 1-3 credits with a focus on information organization is required of students without practical experience.

Courses that qualify for the concentration are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 582</td>
<td>Introduction to Data Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 619</td>
<td>Topics in Information Organization: (with appropriate subtitle)</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science: (with appropriate subtitle)</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 710</td>
<td>Comparative Bibliography</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Cataloging and Classification 1</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 712</td>
<td>Resource Description for Library Catalogs</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 713</td>
<td>Subject Analysis in Library Catalogs</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 714</td>
<td>Metadata</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 715</td>
<td>Music Cataloging</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 716</td>
<td>Thesaurus Construction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>INFOST 750</td>
<td>Arrangement and Description in Archives</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 719</td>
<td>Advanced Topics in Information Organization (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 780</td>
<td>XML for Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 785</td>
<td>Database Management Systems for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 898</td>
<td>Master's Thesis (on an IO topic, directed by an IO faculty)</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 990</td>
<td>Fieldwork in Library and Information Science Services (with a focus on information organization)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

or INFOST 759 | Fieldwork in Archives and Manuscripts                                        |         |

\* IO Concentration Note: Effective 11/11/2016. This course is being replaced by 712 and 713. Students who have already completed 711 may continue to use it for the information organization concentration.
LIBRARY AND INFORMATION
SCIENCE MLIS: INFORMATION
TECHNOLOGY

MLIS: Information Technology (IT) Concentration
Emphasizing the use, implementation, management and evaluation of information technologies for a wide range of organizations, the IT concentration will prepare you to work in a diverse information technology landscape.

Related Certificates
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3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
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Faculty Mentor
Each student is assigned a faculty mentor in the School of Information Studies at the time of admission to the master's program. The name of the faculty mentor is included in the student's letter of admission and may also be obtained from an academic advisor in the School of Information Studies.

Credits and Courses
The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may,
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<td>3</td>
</tr>
<tr>
<td>INFST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Minimum Grade Requirement in the Required Courses**

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

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**Thesis Option**

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Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFST 898: Master’s Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student’s thesis advisor, but is not required to do so. It is the student’s responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

**Information Technology (IT) Concentration**

Students pursuing the IT Concentration must take 15 credits of coursework from the list of qualifying courses as electives within the overall MLIS program. To pursue the IT Concentration students must be admitted into the MLIS program and must submit the IT Concentration Declaration of Intent form (see SOIS website for details). This will allow the program coordinator to track your progress and communicate with you.

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</tr>
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<tbody>
<tr>
<td>INFST 547</td>
<td>User-Centered Interaction Design (Graduate only)</td>
<td>3</td>
</tr>
<tr>
<td>INFST 582</td>
<td>Introduction to Data Science (Graduate only)</td>
<td>3</td>
</tr>
<tr>
<td>INFST 583</td>
<td>Survey of Information Security (Graduate only)</td>
<td>3</td>
</tr>
<tr>
<td>INFST 584</td>
<td>Survey of Web and Mobile Content Development (Graduate only)</td>
<td>3</td>
</tr>
<tr>
<td>INFST 675</td>
<td>Information Technology and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>INFST 682</td>
<td>Digital Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFST 685</td>
<td>Electronic Publishing and Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFST 714</td>
<td>Metadata</td>
<td>3</td>
</tr>
<tr>
<td>INFST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFST 774</td>
<td>Online Information Retrieval</td>
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</tr>
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<td>INFST 780</td>
<td>XML for Libraries</td>
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</tr>
<tr>
<td>INFST 783</td>
<td>Information Storage and Retrieval</td>
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</tr>
<tr>
<td>INFST 785</td>
<td>Database Management Systems for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>INFST 786</td>
<td>Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>INFST 787</td>
<td>Library Automation</td>
<td>3</td>
</tr>
<tr>
<td>INFST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>INFOST 789</td>
<td>Electronic Networking and Information Services:</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science: (with appropriate subtitle)</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 891</td>
<td>Advanced Topics in Library and Information Science: (with appropriate subtitle)</td>
<td>1-3</td>
</tr>
</tbody>
</table>
LIBRARY AND INFORMATION SCIENCE MLIS: PUBLIC LIBRARY

MLIS: Public Library Concentration
See yourself leading an information revolution in public libraries? The Public Library Concentration prepares MLIS graduates to positively engage with the range of opportunities facing the post-modern public library: extended community involvement, incorporation of emerging technologies, and pro-active advocacy for service populations.

Public library leaders build vital, resilient communities through their understanding of user needs, community partnerships, access to information and library services, and the legal and financial frameworks of public libraries. The objective of the Public Library Concentration is to enable graduates to take strong leadership positions with sensitivity to community needs and the possibilities engendered by new media technologies.

Related Certificates
- Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate)

The School of Information Studies prepares students for careers in libraries and the information professions. The School’s array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

Admission Requirement

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Application
An applicant must apply to both the Graduate School and the School of Information Studies.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

1. Submission of scores on the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Miller Analogies Test (MAT). (GRE or MAT scores are currently required of domestic applicants and will be required of international applicants beginning with the summer 2004 admission term.) The test scores should be sent directly to SOIS.
   **The GRE/MAT requirement will be waived for applicants whose overall undergraduate GPA, as calculated by the UWM Graduate School, is at least 3.00, or who already hold another master’s degree or Ph.D., or the equivalent.**
2. Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.
3. Two letters of recommendation from persons who can testify to the applicant’s likelihood of success in the master’s program in library and information science. References from former teachers or employers are preferred.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (http://uwm.edu/graduateschool/admission) section of this Web site.

Faculty Mentor
Each student is assigned a faculty mentor in the School of Information Studies at the time of admission to the master’s program. The name of the faculty mentor is included in the student’s letter of admission and may also be obtained from an academic advisor in the School of Information Studies.
Credits and Courses

The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>12</td>
</tr>
</tbody>
</table>

Minimum Grade Requirement in the Required Courses

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

Culminating Experience Requirement in Library and Information Science

Effective Fall 2016, INFST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

Thesis Option

Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student's thesis advisor, but is not required to do so. It is the student's responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

Public Library Concentration

Students pursuing the Public Library Concentration must take 15 credits of coursework from the list of qualifying courses as electives within the overall MLIS program. To pursue the Public Library Concentration students must be admitted into the MLIS program and must submit the Public Library Concentration Declaration of Intent form (see SOIS website for details). This will allow the program coordinator to track your progress and communicate with you.

The Public Library Concentration requires 18 credits of coursework planned in consultation with the student’s advisor. Credits for the concentration count as electives for the MLIS. The courses that qualify for the concentration are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFST 736</td>
<td>The Public Library</td>
<td>3</td>
</tr>
<tr>
<td>INFST 861</td>
<td>Seminar in Intellectual Freedom</td>
<td>3</td>
</tr>
<tr>
<td>INFST 864</td>
<td>Public Libraries: Philosophy, Policy, Politics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select a minimum of three of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INFST 520 Managing Library Collections</td>
<td>9</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>INFOST 524</td>
<td>Management of Libraries and Information Services</td>
<td></td>
</tr>
<tr>
<td>INFOST 622</td>
<td>Information Marketing</td>
<td></td>
</tr>
<tr>
<td>INFOST 661</td>
<td>Information Ethics</td>
<td></td>
</tr>
<tr>
<td>INFOST 682</td>
<td>Digital Libraries</td>
<td></td>
</tr>
<tr>
<td>INFOST 685</td>
<td>Electronic Publishing and Web Design</td>
<td></td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science: (with appropriate subtitle)</td>
<td></td>
</tr>
<tr>
<td>INFOST 862</td>
<td>Legal Issues for Library and Information Managers</td>
<td></td>
</tr>
<tr>
<td>INFOST 999</td>
<td>Independent Research</td>
<td></td>
</tr>
</tbody>
</table>
| Total Credits |                                                | 18
LIBRARY AND INFORMATION SCIENCE, MLIS

Related Certificates
• Certificate of Advanced Study in Archives and Records Administration (http://uwm.edu/graduateschool/archives-records-administration-certificate)
• Certificate of Advanced Study in Digital Libraries (http://uwm.edu/graduateschool/digital-libraries-certificate)

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

MLIS Program
The purpose of the MLIS program is to prepare librarians and information professionals who are able to manage change in an urbanized, technologically oriented, and knowledge-based society. The MLIS program provides a systematic course of study which enables individuals with a strong service orientation to apply principles of library and information science, use current methods and tools, and recognize the value of research.

Students may elect to specialize according to the type of library or information service which best meets their needs: i.e., school, public, academic, or special; or to follow a more generalized approach. Concentrations in archival studies, information organization, information technology, and public libraries are available.

Graduates of the Master of Library and Information Science degree program are expected to demonstrate the following competencies:

1. To apply scientific principles in developing and managing information resources designed to meet user needs and interests.
2. To analyze, describe, and organize resources for effective and efficient retrieval and dissemination of information.
3. To utilize knowledge of information sources, services, and systems to meet the informational needs of users.
4. To apply management principles in planning, developing, marketing, and evaluating library and information services.
5. To work in specialized areas of library and information service, utilizing knowledge obtained from concentrations within the School and in other disciplines.
6. To build upon current knowledge of information and communication theories and technologies in planning, design, development, and delivery of information services.

The master's degree program is designed to support each of these objectives with appropriate coursework and educational experiences.

The School of Information Studies offers students the opportunity to obtain certification from the Wisconsin Department of Public Instruction as library media specialists or school librarians. Students admitted to the Master of Library and Information Science degree program can incorporate in their degree program the courses for these licenses to the extent that these courses satisfy the degree requirements, either as required core courses or as electives. For additional information about these licenses and their relationship to the master's degree, consult the School Library Media Coordinator.

The advanced courses offered by the School of Information Studies may be selected on a non-degree basis by post-master's students who wish to continue their professional education or special competence in some phase of urban library and information services. The School's graduate courses are also open to graduate students in other fields of study, provided that they have completed the appropriate basic courses (or their equivalent).

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
An applicant must apply to both the Graduate School and the School of Information Studies.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following additional requirements of
the School of Information Studies to be considered for admission to the program:

1. Submission of scores on the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Miller Analogies Test (MAT). (GRE or MAT scores are currently required of domestic applicants and will be required of international applicants beginning with the summer 2004 admission term.) The test scores should be sent directly to SOIS. The GRE/MAT requirement will be waived for applicants whose overall undergraduate GPA, as calculated by the UWM Graduate School, is at least 3.00, or who already hold another master's degree or Ph.D., or the equivalent.

2. Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 IBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.

3. Two letters of recommendation from persons who can testify to the applicant's likelihood of success in the master's program in library and information science. References from former teachers or employers are preferred.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (http://uwm.edu/graduateschool/admission/) section of this Web site.

Facility Mentor
Each student is assigned a faculty mentor in the School of Information Studies at the time of admission to the master's program. The name of the faculty mentor is included in the student's letter of admission and may also be obtained from an academic advisor in the School of Information Studies.

Credits and Courses
The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

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<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Minimum Grade Requirement in the Required Courses
The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

Culminating Experience Requirement in Library and Information Science
Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

Thesis Option
Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.
The faculty advisor assigned to each student upon admission may serve as the student’s thesis advisor, but is not required to do so. It is the student’s responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

Library Media Certification Programs
Requirements: 1902 License
The following SOIS courses are required for the MLIS with Library Media Certification in Wisconsin.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFST 520</td>
<td>Managing Library Collections</td>
<td>3</td>
</tr>
<tr>
<td>INFST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
<tr>
<td>INFST 642</td>
<td>School Library Media Programs and Resources</td>
<td>3</td>
</tr>
<tr>
<td>INFST 644</td>
<td>School Library Practicum</td>
<td>2-3</td>
</tr>
<tr>
<td>INFST 645</td>
<td>Library Materials for Children</td>
<td>3</td>
</tr>
<tr>
<td>INFST 646</td>
<td>Library Materials for Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>INFST 670</td>
<td>Instructional Technologies</td>
<td>3</td>
</tr>
<tr>
<td>INFST 691</td>
<td>Special Topics in Information Science: (Cataloging for Small/School Libraries or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td>INFST 740</td>
<td>Information Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>INFST 745</td>
<td>Library Services for Children and Young Adults</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 36-37

This program will provide school library certification to those who hold a Wisconsin teaching license. Candidates who do not hold a teaching license must also complete post-baccalaureate education coursework and activities to earn the MLIS and school library certification. Students in states other than Wisconsin must consult with their own licensing agencies to determine whether working with our program will meet that state’s licensure requirements.

Program Requirements

Time Limit
Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

In cooperation with the Peck School of the Arts; the College of Health Sciences; and the College of Letters and Science, the School of Information Studies offers the following coordinated degree programs:

**M.S./MLIS**
A Master of Science in Anthropology/Master of Library and Information Science program to prepare students for positions as curators of museum libraries and as information specialists and researchers for local history collections and state historical societies, 51 credits.

**M.A./MLIS**
A Master of Arts in English/Master of Library and Information Science program to prepare students for positions as humanities librarians and curators of special subject collections in the humanities, 51 credits.

**M.A./MLIS**
A Master of Arts in Geography/Master of Library and Information Science program to prepare students for positions as map librarians, 48 credits.

**M.S./MLIS**
A Master of Science in Health Care Informatics/Master of Library and Information Science program to prepare students for positions as clinical informaticists, 56 credits.

**M.A./MLIS**
A Master of Arts in History/Master of Library and Information Science program to prepare students for positions as archivists, 48 credits.

**MSIST/MLIS**
A Master of Science in Information Science and Technology/Master of Library and Information Science program to prepare students for positions in information technology in all types of libraries, 54 credits.

**MALLT/MLIS**
A Master of Arts in Language, Literature, and Translation/Master of Library and Information Science program to prepare students for positions as librarians in a variety of libraries and curators of special subject collections, 51 credits.

**M.M./MLIS**
A Master of Music/Master of Library and Information Science program to prepare students for positions as music librarians. Students in the M.M. degree program will pursue a concentration in Music History and Literature, 54 credits.

**M.S./MLIS**
A Master of Science in Urban Studies/Master of Library and Information Science program to prepare students for positions as urban information specialists, 54 credits.

**M.A./MLIS**
A Master of Arts in Women’s and Gender Studies/Master of Library and Information Science program to prepare students for positions as information specialists in institutions of higher learning, libraries, and research centers, 54 credits.

Prerequisite to the award of either degree in these coordinated programs is the simultaneous award of its counterpart degree. For additional information on these programs, see the Anthropology ([http://uwm.edu/graduateschool/anthropology](http://uwm.edu/graduateschool/anthropology)), English ([http://uwm.edu/graduateschool/english](http://uwm.edu/graduateschool/english)), Language, Literature, and Translation ([http://uwm.edu/graduateschool/language-literature-translation](http://uwm.edu/graduateschool/language-literature-translation)), Geography...
Library and Information Science, MLIS

(http://uwm.edu/graduateschool/geography), Health Care Informatics
(http://uwm.edu/graduateschool/health-care-informatics), History
(http://uwm.edu/graduateschool/history), Music (http://uwm.edu/
graduateschool/music), Urban Studies (http://uwm.edu/graduateschool/
urban-studies), and Women's and Gender Studies (http://uwm.edu/
graduateschool/womens-studies) sections of this website.
LIBRARY AND INFORMATION SCIENCE, MLIS/ANTHROPOLOGY, MS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

MLIS/MS Anthropology

The MLIS/MS Anthropology Coordinated Degree Program (51 credits) prepares students for positions as curators of museum libraries; and as information specialists and researchers for local history collections and state historical societies.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Degree Requirements

Students enrolled in this program concurrently pursue the MS degree in Anthropology (p. 1028) (21 credits in Anthropology—9 fewer elective credits) and the MLIS degree (p. 951) (30 credits in SOIS). Candidates for the coordinated degree program will be expected to fulfill the degree requirements of both programs. Degrees will be awarded simultaneously.

Credits and Courses

Students in the Master's degree program in Anthropology are required to take a minimum of 30 credits, some of which are obtained by taking required courses. Required courses differ by concentration (requirements for students seeking to acquire a Certificate in Museum Studies are listed on that page.

Archaeology Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 801</td>
<td>A Survey of Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 802</td>
<td>Perspectives on Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 380</td>
<td>Anthropological Applications of GIS</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 501</td>
<td>Archaeology of Death</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 535</td>
<td>Analysis of Archaeological Ceramics</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 566</td>
<td>Archaeological Analysis and Report Preparation:</td>
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</tr>
<tr>
<td>ANTHRO 567</td>
<td>Archaeological Field School</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 768</td>
<td>Topics in Advanced Research Design in Anthropology</td>
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</tr>
<tr>
<td>Or an alternative approved by the advisor and the Director of Graduate Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced Seminar</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 763</td>
<td>Professionalism in Anthropology</td>
<td>3</td>
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<tr>
<td>Electives</td>
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<td>12</td>
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<tr>
<td>Total Credits</td>
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<td>30</td>
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</tbody>
</table>

Biological Anthropology Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 801</td>
<td>A Survey of Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 802</td>
<td>Perspectives on Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Course approved by the advisor and the Director of Graduate Studies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Advanced Seminar</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
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<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Cultural Anthropology Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 801</td>
<td>A Survey of Physical Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>
ANTHRO 802  Perspectives on Prehistory  3
ANTHRO 803  Survey of Cultural Anthropology  3

**Methods**

Select two of the following:  6

ANTHRO 560  Introduction to Research Methods in Anthropology
ANTHRO 561  Techniques and Problems in Ethnography
ANTHRO 568  Introduction to Anthropological Statistics

**Advanced Seminar**

ANTHRO 940  Seminar in Problems in Cultural Anthropology:  3

**Electives**

Select 12 credits  12

Total Credits  30

Students may request a waiver for any of the above required courses except the advanced seminar. To request a waiver, a student must submit a letter to the Graduate Studies Committee. Requests must be accompanied by documentation demonstrating that the student is competent in the subject area of the course for which the waiver is sought. A waived course must be replaced by an anthropology course numbered 700 or above.

Students must maintain a B (3.0) average or better overall. The three core courses must be completed with an average of 3.0 or better. Students with a grade below a B in a core course subsequently accepted into the Ph.D. program must retake the course until they achieve a grade of B or better.

A thesis is required of all students; students may apply up to 6 credits of Research/Thesis courses toward meeting the minimum credits for the degree. The thesis must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the thesis to the Graduate School and a signed, unbound “hard” copy to the Department of Anthropology.

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

**Other MLIS courses**  18

Total Credits  30

**Important**

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.
LIBRARY AND INFORMATION SCIENCE, MLIS/ENGLISH, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MA English

The MLIS/MA English Coordinated Degree Program prepares students for positions as humanities librarians.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline, call the Registrar’s Office at (414) 229-3800 or submit a contact form online.

Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Requirements

Students interested in the English MA/MLIS program are expected to follow all the requirements and standards as described in this section of the Bulletin with the following exceptions: the 21 credits required for the MA in English in the coordinated degree program are to be taken within the Department. Courses in related areas must be approved by the Director of Graduate Studies in English. For more information on this program, see the Library and Information Science page.

Credits and Courses

Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
</tbody>
</table>

| INFOST 571 | Information Access and Retrieval           |         |
| INFOST 799 | Research Methods in Information Studies    |         |

Other MLIS courses | 18
Total Credits | 30

Important

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

English Courses

Students admitted to the master’s program earn the degree by completing a minimum of 30 credits of graduate coursework in English, writing a final project, and passing an oral examination at the conclusion of their coursework.

Although students must enroll initially in one of the five plans of study described below, students who demonstrate a capacity for doctoral work, and wish to earn a Ph.D. at UWM, are advised to proceed as rapidly as possible to the PhD program. Ordinarily students are not allowed to proceed beyond 30 credits without having been admitted to the doctoral program. No more than 27 credits earned at the master’s level may be included in the 54 credits required for the Ph.D.

Plan A (Literature and Cultural Theory)

A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 9 credits in literature courses (at least 3 credits pre-1800)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in 800-level seminar in literature or cultural theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in cultural theory</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits of electives</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits | 30

1 Which may include up to 6 credits of ENGLISH 790.

Additional Requirements

- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student’s literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.
- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)

Plan B (Rhetoric and Composition)

A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 751</td>
<td>History of Rhetoric II</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 812</td>
<td>Seminar in Theories of Composition and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 854</td>
<td>Seminar in College Writing Pedagogy</td>
<td></td>
</tr>
</tbody>
</table>
Select 18 credits of electives ¹  18
Total Credits 30

¹ Which may include up to 6 credits of ENGLISH 790.

Additional Requirements
- A final project, which shall be a research paper appropriate to the student's professional goals.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.
- One course is strongly recommended in each of the following areas: Computers and Pedagogy (English at the 700 level); Research Methods

Note: Students who plan to apply to the Ph.D. program are advised to select 6 credits in literature or language courses as part of their electives.

Plan C (Creative Writing)
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 6 credits in 600- or 700-level literature courses (at least 3 credits at the 700 level)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 715 &amp; ENGLISH 815</td>
<td>Narrative Craft and Theory. and Seminar in Fiction Writing:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 716 &amp; ENGLISH 816</td>
<td>Poetic Craft and Theory. and Seminar in Poetry Writing:</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in writing courses at the 600 or 700 level</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 12 credits of electives ¹</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

¹ Which may include up to 6 credits of ENGLISH 790.

Additional Requirements
- No more than 12 credits may be earned in 600-level courses.
- A final project, which shall be a collection of fiction and/or poetry, a novel, or other substantial work of imaginative writing.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts representative of the student's literary background and interests.

Plan G (Professional Writing)
A minimum of 30 credits, selected in consultation with the student's advisor, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement, Professional Writing Theory</td>
<td>3</td>
</tr>
<tr>
<td>800-Level Seminar in Professional Writing ¹</td>
<td>Seminar in Public Rhetorics and Community Engagement: (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>700-Level Professional Writing Practice or Pedagogy ²</td>
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</tr>
</tbody>
</table>

Select 12 credits of the following which are especially recommended: ³

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications: (Subtitle)</td>
</tr>
<tr>
<td>ENGLISH 433</td>
<td>Creative Nonfiction for Publication</td>
</tr>
<tr>
<td>ENGLISH 434</td>
<td>Editing and Publishing</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
</tr>
<tr>
<td>ENGLISH 443</td>
<td>Grant Writing</td>
</tr>
<tr>
<td>ENGLISH 444</td>
<td>Technical Editing</td>
</tr>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
</tr>
<tr>
<td>ENGLISH 706</td>
<td>Seminar in Professional Writing Theory and Pedagogy</td>
</tr>
<tr>
<td>ENGLISH 707</td>
<td>Writing for Business Management</td>
</tr>
<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
</tr>
<tr>
<td>ENGLISH 710</td>
<td>Advanced Project Management for Professional Writers</td>
</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Professional Writing; Topics in Public and Professional Writing: (Subtitle)</td>
</tr>
</tbody>
</table>

Internship or Elective
Select 9 credits in 700-level seminars in digital studies (theory, criticism, or writing) film and/or media ⁴

Additional Requirements
- Students can take no more than 6 credits in any combination of 400-level U/G courses and interdisciplinary courses.
- Students should consult with their advisor about which option would best suit their background and career goals. In general, students with little workplace experience will take the internship and those with substantial workplace experience will take a 700-level elective.

Note: Students who elect to complete a workplace project should expect to prepare a 30-page report justifying the project development and decisions in relationship to the relevant scholarly literature and/or in terms of empirical methods or studies conducted by the student.

Plan H (Media, Cinema, and Digital Studies)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 742</td>
<td>Media Culture</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 credits in 700-level seminars in digital studies (theory, criticism, or writing) film and/or media</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Professional Writing; Topics in Public and Professional Writing: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 714</td>
<td>Usability Studies</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Studies (Subtitle)</td>
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</tr>
</tbody>
</table>
Program Requirements

Final Project
A research paper or other project appropriate to the student’s professional goals.

Oral Examination
Usually lasting an hour and a half, the oral exam covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

Regulations Concerning Final Projects and Oral Examinations
1. Students should consult with their advisors before completing 24 credits to determine a final project. Ordinarily, it is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student’s skills in research, critical analysis, argumentation, and prose style. For students in Plan C (Creative Writing), the project is a substantial portfolio, the exact character of which is determined in consultation with the student’s M.A. Committee. The project serves both as a concluding effort at the master’s level and also as an indication of a student’s potential for doctoral study.

2. In consultation with the student, the Director of Graduate Studies appoints an M.A. Examining Committee. At least two of the three members must be English Graduate Faculty. The M.A. Examining Committee administers the final Oral Examination, covering the project and a separate reading list of at least 30 texts, to be selected by the student and approved by the Committee.

3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 27 credits at the master’s level is applicable to the Ph.D. 54 credit requirement.

4. The Examining Committee offers a recommendation regarding the student’s qualifications for further graduate study at the doctoral level. The Committee Chair puts this recommendation in writing and places it in the student’s academic file.

5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. No additional credits may be earned for the revision of the project after a failed examination. For further information regarding the M.A. project and examination, see the English Graduate Program Handbook.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
</tr>
<tr>
<td>ENGLISH 737</td>
<td>Literature and Aesthetics</td>
</tr>
<tr>
<td>ENGLISH/HIST/MALLT 740</td>
<td>Approaches to the Modern I</td>
</tr>
<tr>
<td>ENGLISH/HIST/MALLT 741</td>
<td>Approaches to the Modern II</td>
</tr>
<tr>
<td>ENGLISH 743</td>
<td>Film Studies: (Subtitle)</td>
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<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
</tr>
<tr>
<td>ENGLISH 775</td>
<td>Modern English Literature: (Subtitle)</td>
</tr>
<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality: (Subtitle)</td>
</tr>
<tr>
<td>FILMSTD 700</td>
<td>Teaching Film Studies: (Subtitle)</td>
</tr>
</tbody>
</table>

Select 12 credits of electives in courses numbered 700 and above 1

Total Credits 30

1 Which may include up to 6 credits of ENGLISH 790.
LIBRARY AND INFORMATION SCIENCE, MLIS/GEOGRAPHY, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
• The MLIS portion of the coordinated degrees can be completed online.
• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MA Geography

The MLIS/MA Geography Coordinated Degree Program prepares students for positions as map librarians. Graduates of the program are qualified to assume positions as curators and staff in map collections of universities, governmental agencies, and industry.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Credits and Courses

The M.A. in Geography normally has a minimum requirement of 24 credits in geography. For the coordinated MA Geography/MLIS degree program, however, students can substitute 6 credits in INFOST courses for 6 credits of geography. This program, therefore, requires a total of 48 credits. Students must complete the 30 credits required for the MLIS degree and the 18 credits in Geography courses specified below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 810</td>
<td>Introduction to Techniques of Research and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 870</td>
<td>Contemporary Geographic Approaches: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select a GEOG 900-level course</td>
<td>3</td>
</tr>
</tbody>
</table>

Select any GEOG graduate course 2
Total Credits 19

The Geography Department offers opportunities for fieldwork that may count toward these requirements. In addition to off-campus fieldwork, the American Geographical Society Collection at the UWM Golda Meir Library provides many unique opportunities for map librarianship fieldwork and is an appropriate site for an internship.

Graduates of the program are qualified to assume positions as curators and staff members in map collections of universities, governmental agencies, and industry. In cases where map collections are not of sufficient size to warrant separation as distinct collections, knowledge of how to store, classify, and retrieve maps will be a valuable set of skills that enhance the qualifications of the information professional.

Important

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.
LIBRARY AND INFORMATION SCIENCE, MLIS/HEALTH CARE INFORMATICS, MS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MS Health Care Informatics**

The MLIS/MS Health Care Informatics Coordinated Degree Program is designed to provide students with theoretical and practical exposure to the evolving field of healthcare informatics as practiced in hospitals, clinics, professional offices, corporations, the government, the insurance industry, and higher education.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

Students are admitted to both graduate programs separately and admission requirements (http://uwm.edu/graduateschool/admission) are consistent with those specified by the UWM Graduate School, the Department of Healthcare Informatics, and the MLIS program (http://uwm.edu/graduateschool/library-information-science) of the School of Information Studies.

**Credit and Courses**

Students accepted into this MS/MLIS program complete the following courses:

**Healthcare Informatics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 700</td>
<td>Introduction to Health Care Informatics</td>
<td>2</td>
</tr>
<tr>
<td>BUS ADM 740</td>
<td>Information Technology Management Concepts and Languages</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>or BUS ADM 813</td>
<td>Object-Oriented and Visual Paradigms</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 541</td>
<td>Healthcare Information Systems Analysis and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- BUS ADM 749 Data and Information Management
- COMPSCI 557 Introduction to Database Systems
- COMPSCI 757 Data Base Organization and File Structure
- HCA 542 Healthcare Database Design and Management
- BUS ADM 748 Managing Information Technology Projects

Select one of the following:

- BUS ADM 741 Web Mining and Analytics
- BUS ADM 814 Enterprise Knowledge & Semantic Management
- COMPSCI 720 Computational Models of Decision Making
- HCA 744 Text Retrieval and Its Applications in Biomedicine (pending)

Select one of the following:

- COMPSCI 520 Computer Networks
- INFOST 710 Comparative Bibliography
- HCA 721 Health Information Technology Procurement
- HCA 723 Health Care Systems Applications - Administrative and Clinical
- HCA 890 Health Care Informatics Research and Thesis
- or HCA 891 Health Care Informatics Professional Project

**Library and Information Science**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies (Culminating experience for the degree)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select at least four of the following: 12-15

- INFOST 521 Introduction to Reference Services and Resources
- INFOST 661 Information Ethics
- INFOST 714 Metadata
- INFOST 791 Topics in Library and Information Science: 1-3
- INFOST 835 Information Sources and Services in the Health Sciences

**Other Elective**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
Select 3 credits

Total Credits

3

40-45

Students also must pass a comprehensive examination, or submit and successfully defend a thesis. The thesis option requires additional credits.

- Minimum Credits for MS: 29
- Minimum MLIS Credits: 27
- Minimum Total Credits for the Program: 56

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

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

**Program Requirements**

**Time Limit**

Students in the coordinated MS/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
**LIBRARY AND INFORMATION SCIENCE, MLIS/HISTORY, MA**

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

**MLIS/MA History**
A Master of Arts in History/Master of Library and Information Science program to prepare students for positions as archivists, 48 credits.

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Credits and Courses**

### Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other MLIS courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 750</td>
<td>Arrangement and Description in Archives</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 752</td>
<td>Archival Outreach: Programs and Services</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 759</td>
<td>Fieldwork in Archives and Manuscripts</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 850</td>
<td>Seminar in Modern Archives Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

3 elective credits for Option A and 6 of the elective credits for Option B can be selected from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 713</td>
<td>Historical Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 credits in two colloquia

Select 6 credits in two seminars

Select 6 credits in a colloquium

Select 9 credits in electives in consultation with the student’s advisor

Total Credits

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

Within the coordinated degree program, the minimum requirement for the MA in History is 30 graduate credits. Course distribution requirements are the same as those for General History Option A or Option B above, but the

**General History Option A: Thesis Option**
Minimum degree requirement is 30 graduate credits, at least 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 713</td>
<td>Historical Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 credits in two colloquia

Select 6 credits in two seminars

Select 9 credits in electives in consultation with the student’s advisor

Total Credits

**General History Option B: Non-Thesis Option**
Minimum degree requirement is 30 graduate credits, 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 713</td>
<td>Historical Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 credits in two colloquia

Select 6 credits in two seminars

Select 15 credits in electives in consultation with the student’s advisor

Total Credits

**Academic Review and Comprehensive Examination Reading List**
Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option B students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student’s Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student’s comprehensive exam. With the assistance of his or her Major Professor, the student must prepare a reading list for the comprehensive exam in advance of the Review. The
Review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the reading list for the comprehensive exam.

**Program Requirements**

**Comprehensive Examination**
The student must pass a written and oral comprehensive examination.

**Thesis (Option A)**
Not required, but with the approval of the Director of Graduate Studies in History, the student may substitute a thesis for the comprehensive examination requirement. MA/MLIS students who write a thesis are subject to the Academic Review and Thesis Prospectus requirements outlined above for Option A.

**Time Limit**
The student must complete all requirements for the coordinated degree within seven years of initial enrollment.
library and information science, mlis/information science and technology, ms

In collaboration with several other academic units at uw-milwaukee, sois offers students the opportunity to obtain two master's degrees concurrently—one in library and information science (mlis) and one in a subject area.

degree requirements

• the number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. all degree requirements of each component must be satisfied.
• the mlis portion of the coordinated degrees can be completed online.
• prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

mlis component

the master of library and information science (mlis) component of each of the coordinated programs includes 30 credits of sois courses. these include the mlis core courses (12 credits). the remaining 18 mlis credits are selected from the school's offerings in accordance with the student's goals in the coordinated degree program.

msist/ms information science and technology

a master of science in information science and technology/master of library and information science program prepares students for positions in information technology in all types of libraries, 54 credits.

admission requirements

application deadlines

if at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the registrar's office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

degree requirements

thirty hours will be required for the mlis and twenty-four for the msist. sois reduces the mlis by 6 credit hours of electives in consideration of another master's degree. the requirements for the msist are its 8 core courses for 24 hours. in sum, for 54 credit hours a student can complete both the mlis and msist degrees. degrees will be awarded simultaneously.

• see the msist (p. 932) page and the mlis (http://uwm.edu/graduateschool/library-information-science/#page) page for more information.

credits and courses

information science and technology ms

the program requires 36 graduate-level credits, including eight, 3-credit core courses and 12 credits of electives.

<table>
<thead>
<tr>
<th>code</th>
<th>title</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>infofst 547</td>
<td>user-centered interaction design</td>
<td>3</td>
</tr>
<tr>
<td>infofst 582</td>
<td>introduction to data science</td>
<td>3</td>
</tr>
<tr>
<td>infofst 583</td>
<td>survey of information security</td>
<td>3</td>
</tr>
<tr>
<td>infofst 584</td>
<td>survey of web and mobile content development</td>
<td>3</td>
</tr>
<tr>
<td>compst 701</td>
<td>mathematical &amp; computing fundamentals for it professionals</td>
<td>3</td>
</tr>
<tr>
<td>compst 702</td>
<td>software development in python</td>
<td>3</td>
</tr>
<tr>
<td>compst 703</td>
<td>software engineering principles</td>
<td>3</td>
</tr>
<tr>
<td>culminating course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>select 12 credits from one of the transcript designated tracks below</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

total credits

36

electives

electives for the user interaction & human computer interaction track

<table>
<thead>
<tr>
<th>code</th>
<th>title</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>infofst 465</td>
<td>legal aspects of information products and services (g)</td>
<td>3</td>
</tr>
<tr>
<td>infofst 670</td>
<td>instructional technologies</td>
<td>3</td>
</tr>
<tr>
<td>infofst 685</td>
<td>electronic publishing and web design</td>
<td>3</td>
</tr>
<tr>
<td>infofst 691</td>
<td>special topics in information science</td>
<td>1-3</td>
</tr>
<tr>
<td>infofst 717</td>
<td>information architecture</td>
<td>3</td>
</tr>
<tr>
<td>infofst 788</td>
<td>information systems: analysis and design</td>
<td>3</td>
</tr>
<tr>
<td>arch 583</td>
<td>emerging digital technology</td>
<td>3</td>
</tr>
<tr>
<td>arch 782</td>
<td>visualization 1</td>
<td>3</td>
</tr>
<tr>
<td>arch 783</td>
<td>visualization 2</td>
<td>3</td>
</tr>
<tr>
<td>art 412</td>
<td>advanced digital studio</td>
<td>3</td>
</tr>
<tr>
<td>art 423</td>
<td>experimental typography</td>
<td>3</td>
</tr>
<tr>
<td>art 496</td>
<td>sequence and structure</td>
<td>3</td>
</tr>
<tr>
<td>art 929</td>
<td>advanced research-design &amp; digital media</td>
<td>1-4</td>
</tr>
<tr>
<td>compsci 459</td>
<td>fundamentals of computer graphics</td>
<td>3</td>
</tr>
<tr>
<td>compsci 522</td>
<td>computer game design</td>
<td>3</td>
</tr>
<tr>
<td>compsci 713</td>
<td>computer vision</td>
<td>3</td>
</tr>
<tr>
<td>compsci 718</td>
<td>advanced computer graphics: modeling and animation</td>
<td>3</td>
</tr>
<tr>
<td>compsci 737</td>
<td>software project management</td>
<td>3</td>
</tr>
<tr>
<td>compsci 743</td>
<td>intelligent user interfaces</td>
<td>3</td>
</tr>
<tr>
<td>compsci 747</td>
<td>principles &amp; practices of user interface design</td>
<td>3</td>
</tr>
<tr>
<td>geog 403</td>
<td>remote sensing: environmental and land use analysis</td>
<td>4</td>
</tr>
<tr>
<td>geog 405</td>
<td>cartography</td>
<td>4</td>
</tr>
<tr>
<td>geog 525</td>
<td>geographic information science</td>
<td>4</td>
</tr>
<tr>
<td>geog 804</td>
<td>advanced remote sensing (previously numbered geog 703)</td>
<td>3</td>
</tr>
</tbody>
</table>
### Electives for the Web and Mobile Application Design Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 717</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 302</td>
<td>Art and Design Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>ART 524</td>
<td>Professional Practice in Design:</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 747</td>
<td>Service-Oriented Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming (G)</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications (Client Side)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
</tbody>
</table>

### Electives for the Information Security Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 761</td>
<td>Information Privacy</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 817</td>
<td>Infrastructure for Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 469</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
</tbody>
</table>

### Electives for the Data Science Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services (G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 714</td>
<td>Metadata</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 716</td>
<td>Thesaurus Construction</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 719</td>
<td>Advanced Topics in Information Organization</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 780</td>
<td>XML for Libraries</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 783</td>
<td>Information Storage and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 785</td>
<td>Database Management Systems for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 816</td>
<td>Business Intelligence Technologies &amp; Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>HCA/COMPSCI 744</td>
<td>Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>HCA 760</td>
<td>Biomedical and Healthcare Terminology and Ontology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Electives for the Generalist Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science:</td>
<td>1-3</td>
</tr>
<tr>
<td>INFOST 788</td>
<td>Information Systems: Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 credit hours with the faculty advisor's guidance</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

### Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

### Other MLIS courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 810</td>
<td>Development of Web-Based Solutions</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 741</td>
<td>Web Mining and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>HCA/COMPSCI 744</td>
<td>Text Retrieval and Its Applications in Biomedicine</td>
<td>3</td>
</tr>
<tr>
<td>HCA 760</td>
<td>Biomedical and Healthcare Terminology and Ontology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Credits

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
</tr>
</tbody>
</table>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.
LIBRARY AND INFORMATION SCIENCE, MLIS/LANGUAGE, LITERATURE, AND TRANSLATION, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
• The MLIS portion of the coordinated degrees can be completed online.
• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MA Language, Literature, and Translation
Available to students interested in Linguistics or Spanish, the joint MLIS/MALLT program prepares students for specialized positions in libraries.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Requirements
Students interested in the MALLT/MLIS program will be expected to follow all of the requirements and standards as described in this section of the Bulletin. Nine of the 30 credits normally required for a MALLT degree will be satisfied by courses taken in SOIS. In the coordinated degree program, MALLT thesis option credits will be in addition to the 21 required MALLT credits. Courses in related areas must be approved by the Coordinator of MALLT.

• See the MALLT (p. 1539) and MLIS (p. 951) pages for more information.

Credits and Courses

<table>
<thead>
<tr>
<th>Basic Required MLIS Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Code</strong></td>
<td><strong>Title</strong></td>
</tr>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
</tr>
<tr>
<td><strong>Total MLIS courses</strong></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

Important
You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.
LIBRARY AND INFORMATION SCIENCE, MLIS/MUSIC, MM

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MM Music (Music History and Literature concentration only)

The coordinated degree program (54 credits) prepare students in the Music History and Literature concentration for positions as music librarians.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UW Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (Music 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (Music 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: Music 680, 731, 744.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 127</td>
<td>Materials of Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Materials of Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 225</td>
<td>Materials of Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124</td>
<td>Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 226</td>
<td>Aural Theory III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 230</td>
<td>Form Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tpoonan@uwm.edu, 414-229-2286)
2. A one-page resume of the applicant’s performance experience and extracurricular activities.
3. A one-page statement addressing the applicant’s reasons for wishing to pursue a degree program at UWM, the applicant’s career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UW Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Credits and Courses

Minimum degree requirement is 30 graduate credits, 27 of which must be in specified music areas, 3 of which may be in one of the other areas or in a related field.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 450</td>
<td>Introduction to Musicology</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 452</td>
<td>Collegium Musicum (1 credit each for two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 710</td>
<td>Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 711</td>
<td>Graduate Seminar in Music History.</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC XXX</td>
<td>Graduate Theory Elective</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 911</td>
<td>Seminar In Musicology I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 990</td>
<td>Research of Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

- Music History: 6 credits
- Other Areas of Music: 1 credit

Select one of the following: 3-30 credits

3 credits of General Electives (UG or G)

30 credits in Library Science if M.M./MLIS major

Total Credits: 30-57

The program must also include:

- MUSIC 314, if not previously completed.
- Reading knowledge of German, French or Italian (see below for specific details).

**Basic Required MLIS Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 30

**Important**

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.
LIBRARY AND INFORMATION SCIENCE, MLIS/URBAN STUDIES, MS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

MLIS/MS Urban Studies
A Master of Science in Urban Studies/Master of Library and Information Science program to prepare students for positions as urban information specialists, 54 credits.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Credits and Courses
Students in the MS/MLIS program follow all of the requirements and standards as described in this section of the Bulletin with the following joint exceptions: 21 of the 24 credits, including the optional 3 credits for a master's thesis, required for the Urban Studies portion of the joint degree are taken within USP. All courses in related areas and any exceptions to the 21 credit rule must be reviewed by the Coordinator of Urban Studies. All courses selected are expected to be consistent with the objectives of the Urban Studies program.

Urban Studies
The minimum degree requirement is 30 graduate credits. All Urban Studies students are required to take a core curriculum of 15 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
<td></td>
</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>URB STD 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 15

Paper or Thesis
A master's paper or thesis is required to receive the MS degree in Urban Studies. A master's paper may be developed from a seminar paper and should demonstrate conceptual ability and research competence in a sub-area of Urban Studies. It is expected that the master's paper will be prepared in a scholarly fashion conforming to the format characteristics of journal articles published in the chosen area of study.


Regardless of the option chosen, the student, in consultation with the faculty advisor, must assemble a committee of three faculty (two of whom cannot be from the same department and must be USP faculty) who will serve as the paper or thesis examination committee. The student must pass an oral examination based on the paper or thesis. Students may opt to enroll in URB STD 990 and earn up to 3 credits toward the MS degree for their paper/thesis research and writing.

Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
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<td>12</td>
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<tr>
<td>INFOST 511</td>
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<td></td>
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<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses: 18

Total Credits: 30

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select an approved quantitative analysis course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
LIBRARY AND INFORMATION SCIENCE, MLIS/WOMEN'S & GENDER STUDIES, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

MLIS/MA Women's and Gender Studies

The coordinated program is designed to provide students with theoretical and practical exposure to evolving information retrieval and organization, and the field of feminist research and scholarship.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

Students are admitted to both graduate programs separately and admission requirements (http://uwm.edu/graduateschool/admission) are consistent with those specified by the UWM Graduate School, the MA in Women's and Gender Studies program in the College of Letter & Science, and the MLIS program (http://uwm.edu/graduateschool/library-information-science) of the School of Information Studies.

Credit and Courses

Students accepted into this MA/MLIS program complete the following courses:

| WGS 711 | Advanced Women's and Gender Studies Research Methods (G) | 3 |
| Select one WGS G or U/G course | 3 |
| Electives | Select 9 credits in WGS courses or cross-listed courses with Women's and Gender Studies (excluding InfoSt) | 9 |
| Total Credits | 24 |

1 Excluding WGS 497, WGS 599, WGS 700, WGS 990, WGS 999.

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

Library and Information Science

| Code | Title | Credits |
| INFOST 501 | Foundations of Library and Information Science (U/G) | 3 |
| INFOST 511 | Organization of Information (U/G) | 3 |
| INFOST 571 | Information Access and Retrieval (U/G) | 3 |
| INFOST 799 | Research Methods in Information Studies (G) | 3 |

Electives

Select 18 credits in consultation with faculty advisor

The following are recommended electives:

| INFOST 861 | Seminar in Intellectual Freedom | 3 |
| INFOST 891 | Advanced Topics in Library and Information Science: | 1-3 |

Total Credits 34-36

1 Six credits taken in WGS also count as electives for a total of 24 crs electives.

Total MLIS Credits: 30 (min of 33 with SOIS thesis option)

Total Credits for Coordinated Program: 54 (57 with thesis)

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

Important

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

Time Limit

Students in the coordinated MA/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
LETTERS AND SCIENCE
(COLLEGE OF)

The College of Letters and Science is the largest academic unit of the University of Wisconsin-Milwaukee. Study of the liberal arts and sciences provides a broad base of knowledge and an array of skills cited by employers as critical to professional success, even more than the major: critical thinking, problem solving, oral and written communication, ability to work well with others, and adaptability to change.

Departments and Programs

- African and African Diaspora Studies (p. 985)
  - African and African Diaspora Studies, BA (p. 992)
  - Africology, Minor (p. 996)
  - Africology, PhD (p. 997)
- American Indian Studies (p. 1000)
  - American Indian Studies, Undergraduate Certificate (p. 1004)
  - Anishinaabe Language, Undergraduate Certificate (p. 1005)
  - Committee Interdisciplinary Major, BA: American Indian Studies (p. 1006)
- Ancient Mediterranean Studies, Undergraduate Certificate (p. 1010)
- Anthropology (p. 1012)
  - Anthropology, BA (p. 1023)
  - Anthropology, Minor (p. 1027)
  - Anthropology, MS (p. 1028)
  - Anthropology, MS/Library and Information Science, MLIS (p. 1030)
  - Anthropology, PhD (p. 1031)
- Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 1032)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 1033)
- Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 1034)
- Museum Studies, Graduate Certificate (p. 1035)
- Art History (p. 1037)
  - Art History and Criticism, Minor (p. 1046)
  - Art History, BA (p. 1046)
  - Art History, MA (p. 1050)
- Asian Studies, Undergraduate Certificate (p. 1052)
- Biological Sciences (p. 1055)
  - Biological Sciences, BA (p. 1065)
  - Biological Sciences, BS (p. 1070)
  - Biological Sciences, Minor (p. 1075)
  - Biological Sciences, MS (p. 1075)
  - Biological Sciences, PhD (p. 1077)
  - Microbiology, BA (p. 1078)
  - Microbiology, BS (p. 1083)
  - Business and Technical Communications, Undergraduate Certificate (p. 1088)
  - Celtic Studies (p. 1089)
    - Celtic Studies, Undergraduate Certificate (p. 1090)
  - Chemistry and Biochemistry (p. 1093)
  - Biochemistry, BA (p. 1101)
  - Biochemistry, BS (p. 1106)
  - Chemistry, BA (p. 1111)
  - Chemistry, BS (p. 1116)
  - Chemistry, Minor (p. 1121)
  - Chemistry, MS (p. 1122)
  - Chemistry, PhD (p. 1123)
  - Course in Chemistry, BS (p. 1124)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 1129)
- Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 1129)
- Childhood and Adolescence Studies, Undergraduate Certificate (p. 1131)
- Communication (p. 1133)
  - Communication, BA (p. 1142)
  - Communication, MA (p. 1146)
  - Communication, MA: Rhetorical Leadership (p. 1147)
  - Communication, Minor (p. 1149)
  - Communication, PhD (p. 1150)
  - Communication, PhD: Rhetorical Leadership (p. 1151)
  - Mediation and Negotiation, Graduate Certificate (p. 1153)
  - Rhetorical Leadership, Graduate Certificate (p. 1154)
- Conservation and Environmental Science (p. 1156)
  - Conservation and Environmental Science, Minor (p. 1157)
  - Conservation and Environmental Sciences, BA (p. 1158)
  - Conservation and Environmental Sciences, BS (p. 1163)
- Cultures and Communities, Undergraduate Certificate (p. 1198)
- Digital Arts and Culture (p. 1205)
  - Committee Interdisciplinary Major, BA: Digital Arts and Culture (p. 1205)
  - Digital Arts and Culture, Undergraduate Certificate (p. 1210)
- Economics (p. 1213)
  - Economics, BA (p. 1220)
  - Economics, MA (p. 1224)
  - Economics, Minor (p. 1225)
  - Economics, PhD (p. 1225)
- English (p. 1227)
  - English, BA (p. 1253)
  - English, MA (p. 1262)
  - English, MA/Library and Information Science, MLIS (p. 1264)
  - English, Minor (p. 1266)
  - English, PhD (p. 1267)
  - Professional Writing and Communication, Graduate Certificate (p. 1269)
- English as a Second Language (p. 1272)
- Ethnic Studies (p. 1274)
  - Committee Interdisciplinary Major, BA: Comparative Ethnic Studies (p. 1277)
• Comparative Ethnic Studies, Undergraduate Certificate (p. 1282)
• Hmong Diaspora Studies, Undergraduate Certificate (p. 1284)

• Film Studies (p. 1286)
  • Business of Media and Film Studies, Undergraduate Certificate
    (College of Letters and Science, Department of Film Studies)
    (p. 1290)
  • Film Studies, BA (p. 1291)
  • Film Studies, Minor (p. 1294)

• Food & Beverage Studies (p. 1296)
  • Food Studies, Undergraduate Certificate (College of Letters and
    Science, Department of Food & Beverage Studies) (p. 1297)

• Foreign Languages and Literature (p. 1299)
  • Arabic, Minor (p. 1327)
  • Business German, Minor (p. 1328)
  • Chinese, Minor (p. 1328)
  • Classics, BA (p. 1329)
  • Classics, Minor (p. 1333)
  • Committee Interdisciplinary Major, BA: Chinese Language and
    Culture (p. 1333)
  • Committee Interdisciplinary Major, BA: Japanese Language and
    Culture (p. 1337)
  • German Studies, Undergraduate Certificate (p. 1340)
  • German, BA (p. 1341)
  • German, Minor (p. 1344)
  • Japanese, Minor (p. 1345)
  • Jewish Studies, BA (p. 1345)
  • Jewish Studies, Minor (p. 1349)
  • Russian and East European Studies, Undergraduate Certificate
    (p. 1351)
  • Russian, BA (p. 1353)
  • Russian, Minor (p. 1356)
  • Scandinavian Studies, Undergraduate Certificate (p. 1357)

• French, Italian, and Comparative Literature (p. 1359)
  • Business French, Minor (p. 1373)
  • Comparative Literature, BA (p. 1374)
  • Comparative Literature, Minor (p. 1378)
  • French and Francophone Studies, Undergraduate Certificate
    (p. 1378)
  • French, BA (p. 1380)
  • French, Minor (p. 1383)
  • Italian, BA (p. 1383)
  • Italian, Minor (p. 1387)

• Geography (p. 1388)
  • Geographic Information Science, Minor (p. 1396)
  • Geographic Information Systems, Graduate Certificate
    (College of Letters and Science) (p. 1397)
  • Geography, BA (p. 1399)
  • Geography, BS (p. 1403)
  • Geography, MA (p. 1407)
  • Geography, MA/Library and Information Science, MLIS (p. 1409)
  • Geography, Minor (p. 1410)
  • Geography, MS (p. 1410)
  • Geography, PhD (p. 1413)
• Geosciences (p. 1417)
  • Geosciences, BA (p. 1423)
  • Geosciences, BS (p. 1426)
  • Geosciences, Minor (p. 1429)
  • Geosciences, MS (p. 1429)
  • Geosciences, PhD (p. 1430)

• Global Studies (p. 1433)
  • Global Health, Undergraduate Certificate (College of Letters and
    Science) (p. 1436)
  • Global Studies, BA (p. 1438)
  • Global Studies, Minor (p. 1450)

• History (p. 1453)
  • History, BA (p. 1468)
  • History, MA (p. 1474)
  • History, MA/Library and Information Science, MLIS (p. 1476)
  • History, MA: Public History (p. 1477)
  • History, Minor (p. 1480)
  • History, PhD (p. 1483)

• Human Resources and Labor Relations (p. 1486)
  • Human Resources and Labor Relations, MHRLR (College of
    Letters and Science) (p. 1487)
  • International Human Resources and Labor Relations, Graduate
    Certificate (p. 1488)

• International Studies (p. 1490)
  • International Studies, BA (p. 1491)
  • International Studies, Minor (p. 1499)

• Journalism, Advertising, and Media Studies (p. 1505)
  • Journalism, Advertising, and Media Studies, BA (p. 1511)
  • Journalism, Advertising, and Media Studies, Minor (p. 1515)
  • Media Studies, MA (p. 1516)

• Language, Literature & Translation (p. 1518)
  • Language, Literature, and Translation, MA (p. 1539)
  • Language, Literature, and Translation, MA/Business
    Administration, MBA (p. 1541)
  • Language, Literature, and Translation, MA/Library and
    Information Science, MLIS (p. 1541)
  • Language, Literature, and Translation, MA: Classics (p. 1524)
  • Language, Literature, and Translation, MA: Comparative Literature
    (p. 1525)
  • Language, Literature, and Translation, MA: Classical Greek
    (p. 1526)
  • Language, Literature, and Translation, MA: French and
    Francophone Language, Literature, and Culture (p. 1528)
  • Language, Literature, and Translation, MA: German Language,
    Literature, and Culture (p. 1529)
  • Language, Literature, and Translation, MA: Interpreting (p. 1530)
  • Language, Literature, and Translation, MA: Latin (p. 1532)
  • Language, Literature, and Translation, MA: Linguistics (p. 1533)
  • Language, Literature, and Translation, MA: Spanish and
    Hispanophone Language, Literature, and Culture (p. 1535)
  • Language, Literature, and Translation, MA: Translation (p. 1536)
  • Translation, Graduate Certificate (p. 1542)

• Latin American and Caribbean Studies (p. 1545)
  • Latin American and Caribbean Studies, Undergraduate Certificate
    (p. 1546)
  • Latin American, Caribbean, and U.S. Latin@ Studies (p. 1550)
• Latin American, Caribbean, and U.S Latin@ Studies, BA (p. 1552)
• Latino Studies (p. 1558)
  • Latino Studies, Undergraduate Certificate (p. 1559)
• Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies (p. 1562)
  • Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate (p. 1563)
• Liberal Studies (p. 1565)
  • Liberal Studies, MLS (p. 1566)
• Linguistics (p. 1568)
  • Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate (p. 1574)
  • Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate (p. 1576)
• Linguistics, BA (p. 1577)
• Linguistics, MA (p. 1580)
• Linguistics, MA: Teaching English to Speakers of Other Languages (p. 1582)
• Linguistics, Minor (p. 1583)
• Linguistics, PhD (p. 1584)
• Mathematical Sciences (p. 1586)
  • Actuarial Science, BA (p. 1605)
  • Actuarial Science, Minor (p. 1608)
  • Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematics) (p. 1609)
• Atmospheric Science, BS (p. 1611)
• Atmospheric Science, Minor (p. 1615)
• Atmospheric Science, MS (p. 1615)
• Atmospheric Science, PhD (p. 1616)
• Mathematics, BA (p. 1618)
• Mathematics, BS (p. 1622)
• Mathematics, Minor (p. 1626)
• Mathematics, MS (p. 1627)
• Mathematics, MS: Actuarial Science (p. 1628)
• Mathematics, MS: Foundations of Advanced Studies (p. 1629)
• Mathematics, MS: Industrial Mathematics (p. 1630)
• Mathematics, MS: Statistics (p. 1632)
• Mathematics, PhD (p. 1634)
• Middle Eastern and North African Studies, Undergraduate Certificate (p. 1636)
• Peace Studies & Conflict Resolution (p. 1638)
  • Peace Studies and Conflict Resolution, Undergraduate Certificate (p. 1638)
• Philosophy (p. 1642)
  • Ethics, Values, and Society (CEVS), Undergraduate Certificate (p. 1649)
  • Philosophy, BA (p. 1651)
  • Philosophy, MA (p. 1654)
  • Philosophy, Minor (p. 1656)
• Physics (p. 1657)
  • Physics, BS (p. 1666)
  • Physics, Minor (p. 1670)
  • Physics, MS (p. 1671)
  • Physics, PhD (p. 1672)
• Political Science (p. 1674)
• Political Science, BA (p. 1686)
• Political Science, MA (p. 1690)
• Political Science, Minor (p. 1691)
• Political Science, PhD (p. 1692)
• Pre-Professional Programs (p. 1694)
  • Other Pre-Professional Health Study (p. 1694)
  • Pre-Chiropractic (p. 1694)
  • Pre-Dentistry (p. 1695)
  • Pre-Forestry (Wildlife Management) (p. 1696)
  • Pre-Law (p. 1696)
  • Pre-Medicine (p. 1697)
  • Pre-Optometry (p. 1698)
  • Pre-Pharmacy (p. 1699)
  • Pre-Physician Assistant (p. 1700)
  • Pre-Podiatry (p. 1700)
  • Pre-Veterinary Medicine (p. 1701)
• Psychology (p. 1703)
  • Psychology, BA (p. 1711)
  • Psychology, BS (p. 1715)
  • Psychology, Minor (p. 1718)
  • Psychology, MS (p. 1719)
  • Psychology, PhD (p. 1720)
• Public and Non-Profit Administration (p. 1724)
  • Nonprofit Management and Leadership, MS (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1728)
  • Nonprofit Management, Graduate Certificate (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1729)
  • Public Administration, MPA (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1730)
  • Public Administration, MPA/Criminal Justice, MS (p. 1732)
  • Public Administration, MPA/Urban Planning, MUP (p. 1733)
• Quantitative Social Data Analysis, Undergraduate Certificate (p. 1734)
• Religious Studies (p. 1736)
  • Religious Studies, BA (p. 1738)
  • Religious Studies, Minor (p. 1741)
• Sociology (p. 1742)
  • Sociology, BA (p. 1749)
  • Sociology, MA (p. 1752)
  • Sociology, Minor (p. 1754)
  • Sociology, PhD (p. 1754)
• Spanish and Portuguese (p. 1757)
  • Business Spanish, Minor (p. 1766)
  • Portuguese, Minor (p. 1766)
  • Spanish for Health Professionals, Undergraduate Certificate (p. 1767)
  • Spanish, BA (p. 1768)
  • Spanish, MA (p. 1772)
  • Spanish, Minor (p. 1773)
• Translation and Interpreting Studies (p. 1775)
  • Interpreting, Graduate Certificate (p. 1775)
  • Translation and Interpreting Studies, MA (p. 1776)
• Urban Studies (p. 1778)
  • Urban Studies, BA (p. 1782)
  • Urban Studies, MS (p. 1786)
  • Urban Studies, MS/Library and Information Science, MLIS (p. 1787)
  • Urban Studies, PhD (p. 1788)
  • Urban Studies, Undergraduate Certificate (p. 1790)
• Women’s and Gender Studies (p. 1792)
  • Women’s and Gender Studies, BA (p. 1795)
  • Women’s and Gender Studies, Graduate Certificate (p. 1799)
  • Women’s and Gender Studies, MA (p. 1800)
  • Women’s and Gender Studies, MA/Library and Information Science, MLIS (p. 1801)
  • Women’s and Gender Studies, MA/Social Work, MSW (p. 1802)
  • Women’s and Gender Studies, Minor (p. 1802)

Graduate Policies and Regulations
The Graduate School policies and regulations can be found at Graduate School Policies (p. 22). Please refer to the specific program for program policies and regulations.

Undergraduate Policies and Regulations
Semester Course Load (UWM Policy)
Students in Letters and Science may carry a maximum of 18 credits in a regular semester. In extraordinary circumstances, an overload may be granted to a student with a high GPA who has no outstanding incompletes. Students should contact their Letters and Science advisor for instructions on requesting an overload. Additional fees are assessed for credits beyond 18.

Bachelors of Arts and Bachelors of Science Degree Requirements (Letters & Science Policy)
Specific degree requirements for the Bachelor of Arts and Bachelor of Sciences degrees are listed on on the individual pages for those majors. Students are cautioned to meet with their advisor(s) regularly to ensure they understand all requirements they need to complete in order to graduate, including major requirements, UWM general education requirements, Letters and Science breadth requirements, and Letters and Science degree requirements. Students should not rely on pre-printed sample plans as those are intended as samples only and may not apply to every student’s exact circumstances.

Declaration of an Intended Major (Letters & Science Policy)
Students who are not yet eligible to declare a major formally may declare an intended major in an academic discipline of interest to them. The declaration of an intended major is encouraged as soon as a student finds they are interested in a particular area. This action permits the department to identify students to whom to send information concerning programs, scholarships, opportunities (e.g., internships), and other matters relating to the area of study. Students may declare an intended major by completing a brief form available online (http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Intended_Major_Form.pdf) or from the L&S Advising Office (HLT 142).

Declaration of a Major (UWM Policy)
After completing 15 credits and before 75 credits have been earned, students must declare a major by contacting the appropriate academic department or program. Specific information on how to declare a major can be found on that program’s web site. Failure to declare the major before 75 credits have been earned may result in a delay of graduation. Some departments or programs specify course and/or GPA requirements that students must satisfy prior to declaring the major.

Major GPA Requirement (Letters & Science Policy)
The College requires that students attain at least a 2.5 GPA in all credits in the major, including courses attempted at UWM and courses taken elsewhere and transferred to UWM. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other than the home department. Contact your major faculty advisor for information on whether those credits will count as part of the major GPA.

Cumulative GPA Requirement (UWM Policy)
To be eligible for a bachelor’s degree, students must attain a cumulative GPA of 2.0 on all credits that count toward a degree, including any transfer work.

Major and Minor Residency Requirement (Letters & Science Policy)
The College requires that students complete at least 15 credits of their major in upper-division (numbered 300 or above) courses at UWM in order to earn that major from UWM. The College requires that students complete at least 9 credits of their minor in upper-division (numbered 300 or above) courses at UWM in order to earn that minor from UWM.

Degree Residency Requirements (Letters & Science Policy)
In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires students to:
1. Take the last 30 credits of their program at UWM, or
2. Take 45 of the last 60 credits at UWM, or
3. Take at least 90 of the 120 credits needed for a degree at UWM

Credits earned through credit-by-examination, retroactive credit in foreign languages, and the College Level Examination Program do not count toward residency, but they also do not interrupt residency.

Transfer Credit Limitations and Requirements (Letters & Science Policy)
Students who transfer to UWM from a UW two-year college, Milwaukee Area Technical College, Madison Area Technical College, or Nicolet Technical College may transfer up to 72 credits taken at a two-year school.

Students who transfer to UWM from a junior college outside Wisconsin must earn the final 48 credits at UWM or in another bachelor’s degree-granting college or university in accord with the requirements stated above.
Research Requirement (Letters & Science policy)
Within their major, students must complete a research experience approved by the L&S Faculty.

Major Requirements (Letters & Science policy)
To complete a major, students must satisfy all the requirements of the major as stated in the department or program entry in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

Committee Interdisciplinary Major
The Committee Interdisciplinary Major (CIM) is designed to meet the individual needs of the students. Upon request by a student, a committee of three or more individuals from two or more academic units may develop a major based on that student’s abilities and needs. All committee majors must be approved by the major academic units involved. The CIM requires a minimum of 30 credits, of which at least 15 must be in upper-division (numbered 300 or above) Letters and Science courses taken in residence at UWM. The CIM must include coursework in at least two L&S academic units. Most academic units outside the College also may be selected as part of the major. However, at least 18 credits in the major must be earned in Letters and Science courses. Non-L&S courses selected as part of a CIM will not count toward the 90 L&S credits required for the degree, but they will satisfy part of the 30 elective credits available to L&S students.

To propose a CIM, students should obtain a “Declaration of Committee Interdisciplinary Major” form from the Office of Student Academic Services. They must prepare a written statement defining the goals of their proposed major, and then identify three individuals from two or more academic units who are willing to function as the major oversight committee. One individual may be an academic staff member, but at least two must be faculty members. Academic staff members of CIM committees must be approved by the CIM committee chair and the Assistant Dean for L&S Student Academic Services. At least two committee members must be from L&S. A member of the L&S faculty serves as committee chair and major advisor. The student and committee members together identify the courses that will be required for the major. The declaration form is completed and signed by the committee chair and then sent for approval to the chair/director of every academic unit in which courses in the major will be taken. Students present the completed declaration form to the Office of Student Academic Services at any time between the 15th and 75th credit. An academic advisor, in consultation with the Assistant Dean for Student Academic Services, will either approve or deny the proposal. Should the proposal be denied, the student and the committee chair will receive a written explanation of the denial. Students may appeal a denial to the L&S Academic Policies and Curriculum Committee. The proposal also may be reworked and resubmitted.

Minors (Letters & Science Policy)
The completion of a minor is optional. The College requires that students attain at least a 2.5 GPA in all credits in the minor, including courses attempted at UWM and any courses taken elsewhere and transferred to UWM for the minor. Individual departments may require higher GPAs for graduation. Students must complete at least 9 credits of upper-division (numbered 300 or above) courses in the minor at UWM in order to earn the minor from UWM.

Minimum Number of Cumulative Credits (UWM Policy)
To complete a bachelor’s degree, 120 degree credits are required.

Other Credit Requirements, Bachelor of Arts (Letters & Science Policy)
For the Bachelor of Arts degree, as part of the 120 total credits needed, students must complete at least 36 credits in upper-division (numbered 300 or above) courses offered by the College of Letters and Science.

At least 90 credits of the 120 total credits must be completed in courses offered by the College of Letters and Science, allowing students to take as electives up to 30 credits in courses offered by other schools and colleges at UWM. There is no limit to the number of credits that may be taken in one department. No more than 6 credits from a single course outside the College may be counted toward the degree. A maximum of 12 credits in military science courses may be counted toward the degree as non-L&S electives. No more than 6 credits of field experience taken outside the College and no more than 6 credits in sport and recreation courses may be counted toward the degree. No “life experience” credits may be counted toward the degree.

Other Credit Requirements, Bachelor of Science (Letters & Science Policy)
For the Bachelor of Science degree, as part of the 120 total credits needed, students must complete at least 36 credits in upper-division courses (numbered 300 or above) offered by the College of Letters and Science. At least 30 of these 36 credits must be from natural science curricular areas or other courses approved as advanced natural sciences.

At least 90 credits of the 120 total credits must be completed in courses offered by the College of Letters and Science, allowing students to take as electives up to 30 credits in courses offered by other schools and colleges at UWM. There is no limit to the number of credits that may be taken in one department. No more than 6 credits from a single course outside the College may be counted toward the degree. A maximum of 12 credits in military science courses may be counted toward the degree as non-L&S electives. No more than 6 credits of field experience taken outside the College and no more than 6 credits in sport and recreation courses may be counted toward the degree. No “life experience” credits may be counted toward the degree.

Eligibility for Prior Degree Requirements (Letters & Science Policy)
A student who declares their major within five years of entering the UW System as a degree candidate at any campus may choose to satisfy the requirements in force at the time of the declaration of major. Alternatively, a student may choose to satisfy any set of requirements that was in place at any time since they first entered the UW System as a degree-seeking student. Students are advised to consult with their advisor to determine whether an earlier set of requirements would be more advantageous.

Similarly, returning students who have been out of school for a long amount of time, should consult their advisor about which set of requirements may apply and which would be the best path for their specific circumstances.
Second Baccalaureate Degree Requirements (Letters & Science Policy)

Students who already hold a bachelor’s degree from UWM or from another university who wish to earn a second baccalaureate degree can do so by satisfying all current requirements for that undergraduate degree in the College of Letters and Science. The second bachelor’s degree must be a different degree than the first bachelor’s degree (e.g. a student who holds a bachelor of science degree may seek a bachelor of arts degree, but a student who already holds a bachelor of arts degree may not seek a second bachelor of arts degree).

Coursework previously completed, whether at UWM or elsewhere, may be used to satisfy requirements. However, students must complete a minimum of 30 credits at UWM after the date upon which the first degree was awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed at UWM. Of these 30 credits, at least 24 must be in courses offered through the College of Letters and Science. And, at least 20 of the 30 credits must be in upper-division courses, numbered 300 or above. Students must satisfy the current requirements for the chosen major.

Post-Baccalaureate Second Major or Additional Major Requirements (Letters & Science Policy)

Students who already hold a bachelor’s degree from UWM or from another university who wish to add an additional major to their credentials can do so by completing only the requirements for that major. Students are not required to complete an entire second degree. Students who opt for this path will leave UWM with certification that they have completed an additional major that can then be listed on a resume along with their original degree (e.g. “Bachelor of Arts with a psychology major from the University of Illinois, with a second major in sociology from UWM”).

All credit and grade point average requirements currently in effect for the selected major are enforced. This means that students must complete a minimum of 15 advanced credits (numbered 300 or above) at UWM, and they must complete the version of the major in effect at the time of declaration. Students participating in the program must provide transcripts of all prior non-UWM work. Those with a prior degree are admitted with senior standing. Completion of the major is certified by the major department and recorded on an official UWM transcript.

Changing Majors (UWM Policy)

Current UWM students with a major outside of the College of Letters and Science who wish to change to a major within the College of Letters and Science, may do so at any time as long as they are in good academic standing (minimum 2.0 GPA). Complete this form [http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Change_Of_Program_Form.pdf](http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Change_Of_Program_Form.pdf), schedule an appointment with a Letters and Science advisor by calling (414) 229-4654, and bring the form to your appointment. Students should carefully note that degree requirements differ significantly between the different Schools and Colleges at UWM and a thorough discussion with an advisor is recommended before making this change, especially if the student is several years into his/her college career.

If you are not currently in good standing, you may still make an appointment with an advisor to discuss ways to raise your GPA and classes you can take prior to transferring into L&S.

Make a Program Change (Add, drop, withdraw, etc.) (Letters & Science Policy)

Many changes can be made on a self-service basis directly in PAWS up to two weeks after the start of a class. After that point in time, students should consult the Letters and Science advising website [http://uwm.edu/letters-science/advising/answers-forms](http://uwm.edu/letters-science/advising/answers-forms) for instructions on how to make a program change; there are different instructions depending on how many weeks have past since the start of the semester.

Grade Appeal Policy (Letters & Science Policy)

Students should review the Letters and Science policy for grievances and grade appeals [http://uwm.edu/letters-science/advising/answers-forms/policies/appeal-procedure-for-grades](http://uwm.edu/letters-science/advising/answers-forms/policies/appeal-procedure-for-grades).

Academic Probation and Academic Drop (UWM Policy)

Students with a cumulative GPA below a 2.0 are placed on academic probation. While on academic probation, if the next semester’s GPA remains below a 2.0, the student will be dropped for one semester. However, if the student’s semester GPA is at least a 2.0 but the cumulative GPA remains below a 2.0, the student may continue attending UWM on probation. The probation status will be removed when the cumulative GPA rises to a 2.0 or higher.

Return from Academic Drop (UWM Policy)

Students may appeal to return after being dropped by contacting their advisor. Appeals will only be considered if significant and extenuating non-academic reasons can be presented. Students may be asked to provide verifiable documentation of medically-related or other circumstances.

A student who is allowed to return will be placed into a final probation status. A student who is on final probation who earns a semester GPA of at least 2.0 will be allowed to continue on final probation until the cumulative GPA rises above a 2.0. However, if a student fails to earn at least a 2.0 semester GPA, they will be dropped for two years.

Incomplete Policy (Letters & Science Policy)

Students should review the Letters and Science policy for incompletes [http://uwm.edu/letters-science/advising/answers-forms/policies/incomplete-policy](http://uwm.edu/letters-science/advising/answers-forms/policies/incomplete-policy).

Concurrent Enrollment (Letters & Science Policy)

Students should review the Letters and Science concurrent enrollment policy [http://uwm.edu/letters-science/advising/answers-forms/policies/concurrent-enrollment-policy](http://uwm.edu/letters-science/advising/answers-forms/policies/concurrent-enrollment-policy). Concurrent enrollment refers to taking classes at both UWM and another university during the same semester. Permission is required for Fall and Spring concurrent enrollment; permission is not required to concurrently enroll in more than one university during the summer.

Repeat Policy (UWM Policy)

Students should review UWM’s policy on repeats [http://uwm.edu/onestop/enrolling/eligibility-to-enroll](http://uwm.edu/onestop/enrolling/eligibility-to-enroll). The policy can be found on the campus’ OneStop website under the section called “Enrollment Policies.”

Academic Advising and Admissions Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their
major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Undergraduate Opportunities

#### Online Coursework and Online Majors

The College of Letters and Science offers a variety of coursework online or in a blended format (partially online and partially in-person). No distinction is made between an “online” student and an “in-person” student; students register for any combination of course formats that they wish to take. Almost all students choose to take at least one online class during their college career. All coursework is taught by the same faculty members and is of the same rigor whether it is online or in-person.

As of January 2018, there are six majors and minors available entirely online: communication, history, Jewish studies, political science, psychology, and sociology.

#### Independent Learning Program

The University of Wisconsin System offers online independent learning opportunities (https://il.wisconsin.edu) to students at all campuses whereby they can earn college credit.

Letters and Science students may take advantage of this program in one of two ways:

1. Students who meet the following criteria may be able to take a UW Independent Learning course for free:
   - enrolled full-time in either fall or spring semester
   - will also enroll in one or more UW Independent Learning course during the first two weeks of the fall or spring semester
   - will complete the UW Independent Learning course during fall or spring semester rather than completing it at-your-own-pace
   - will be taking a class or classes through UW Independent Learning that are not offered by UWM online (for example, foreign language courses)

   If you meet these criteria, you should petition to take a UW independent Learning course for free by contacting the Assistant Dean for Student Academic Services, Cindy Piercy at cindy@uwm.edu. Include in your email your name, student ID, and information about the class(es) you seek to take through the UW Independent Learning program.

2. Students can also choose to pay out-of-pocket for UW Independent Learning courses if they are part-time students or wish to take an Independent Learning course during summer term or UWinterIM term. Letters and Science imposes a one-year time limit to complete any UW Independent Learning class to have it count for credit.

All students should consult with their advisor prior to registering for a UW Independent Learning course to make sure they understand any other restrictions related to repeating a course that was previously taken or our concurrent enrollment policy (http://uwm.edu/letters-science/advising/answers-forms/policies/concurrent-enrollment-policy).

#### Credit for Demonstrated Equivalent Preparation (non-foreign language)

Under certain circumstances, a department may grant credits toward graduation for knowledge or abilities attained through previous work, i.e., coursework or other systematic study as determined by the department. Although the College of Letters and Science places no limit on the number of credits that may be obtained in this way, departments, if they choose to do so, may set limits on the number of credits they will grant.

Departments other than foreign language departments may grant a student credits toward graduation for a University course in which they request and pass a special University examination. An examination for credit must be based on work equivalent to a course given at UWM, and the credits granted will be for the corresponding course. In order to justify the request for an examination for credit, the student must present evidence of previous preparation to the department. Permission for such examinations must be secured in advance from the Dean of the College upon recommendation of the department chair. Examinations for credit will be taken at a time specified by the department. In general, a student may not take such an examination if any previous enrollment in the target course appears on the student’s record, whether or not the course was completed.

#### Credit for Demonstrated Equivalent Preparation (retro credits for foreign language)

Foreign language departments may allow students to receive credit for prerequisite language courses at the 100 and 200 level upon completion of higher-level entry courses in that language. For example, a student whose placement test score allows them to start at the Third-Semester Spanish, for example, would receive the credits for First-Semester Spanish and Second-Semester Spanish if they successfully complete Third-Semester Spanish with a B or better. As a general policy, a grade of B or above is required, but individual departments may set a higher grade requirement. Only the grade in the completed course is computed into the grade point average; no GPA points are calculated for the retro credits. A student who earns below the required grade in the starting course becomes, thereafter, ineligible for “retro” credits in the language involved.
The number of credits that can be earned in this way is limited to a maximum of 16 in any one language.

Credits granted for the courses skipped will be equal to the credit value of those course(s) or a maximum of 4 credits for each, whichever is smallest. Students may not be granted "retro" credits for courses at the 300 level and above, except where the fourth-semester course in a regular language sequence is numbered 300 or above.

In the foreign languages, retro credits also may be granted to transfer students under the following circumstances:

- Retro credits granted by another institution will be accepted at UWM if they were granted based on a course that generates retro credits at UWM and if the student has earned the grade that is required at UWM.
- A transfer student coming from an institution that does not grant retro credits but who took a foreign language course that transfers as a qualifying course at UWM may apply for retro credits if the student satisfies UWM standards for receiving retro credits.

In both cases, the number of retro credits awarded will be limited to the number of credits students at UWM are granted for each prerequisite course.

Students who want more information should contact the chair of the appropriate language department.

First-Year Seminars
The First-Year Seminar Program gives freshmen the opportunity to participate in a small learning community during their first semester, helping to ease the transition to college.

Limited to just 20 first-year students, each seminar provides a unique opportunity for students to get to know their professors and fellow students. In this small seminar setting, the professor serves as a mentor, coaching and helping students to achieve success. First-year seminars emphasize the development of collaboration, teamwork, written and oral communication skills, creative and analytical thinking, and skills for college success.

Seminars are offered in a wide variety of interest areas across the natural sciences, social sciences, and humanities. Most first-year seminars are offered for three credits and can be applied to degree requirements. See the Schedule of Classes (https://www4.uwm.edu/schedule) for a list of first-year seminars taught in the current semester.

For more information, contact your advisor or our admissions counselors at (414) 229-7711 or let-sci@uwm.edu.

Independent Study
Certain departments allow qualified students to register for independent study. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a member of the Letters and Science faculty or instructional academic staff. The activities may include reading, research, or special projects. In most departments, independent study is offered at the lower (course number 199) and upper levels (course number 699), although both levels are not available in all departments.

In order to apply for lower-level independent study, students must have a 2.5 GPA or above on all credits attempted at UWM. The upper-level independent study course carries a prerequisite of junior standing and a 2.5 UWM GPA. Departments may opt to set higher GPA prerequisites. To ascertain class standing and cumulative GPA for new transfer, special, and summer-only students, a transcript of all previous college work must be submitted. Some independent study courses may have departmental prerequisites in addition to these college-wide prerequisites. Departments do not have the authority to waive college-wide prerequisites. To see if a particular department offers independent, see that department's course listings in this catalog.

Students interested in an independent study should work with the individual they have chosen as their supervising instruction to prepare a study proposal describing the plan of study. The study proposal must be approved by the department chair and forwarded to the Office of Student Academic Services via your Letters and Science advisor.

Internships and Experiential Opportunities
Students are strongly encouraged to enhance their classroom knowledge with experiential knowledge gained through work, volunteer, and internship experiences. These experiences are vital to career exploration and for building a resume prior to graduation.

Students find internships through a variety of sources: some use their own network to find opportunities, some majors provide assistance or host a job board, and some organizations will post opportunities with the UWM Career Planning and Resource Center (http://uwm.edu/careerplan). Students should explore all avenues, including speaking with both their major advisor and their Letters and Science advisor, to find experiential learning opportunities.

Some internships may be available for college credit or for pay, or a combination of both. Students should inquire of all details and arrange for proper registration for credit if that is an option with their major advisor.

Research Experience (Office of Undergraduate Research (OUR))
Many programs in the College of Letters and Science work closely with the Office of Undergraduate Research (OUR) to offer research experiences for undergraduates. Research spans the natural sciences, social sciences, and humanities and highly-motivated students can contribute to the creation of knowledge, sometimes even achieving professional publication alongside of faculty members.

As early as the first year in college, students can work side-by-side with faculty members and graduate students on research projects. Opportunities can include credit, pay, or a combination of both. OUR staff will help students identify possible research projects and arrange for students to meet with the faculty members. Students can browse current opportunities at their website (https://uwm.edu/our).

Certificate Programs
Certificates are similar to minors in terms of the number of credits required. Where a minor consists of all coursework from the same department, a certificate draws on classes from multiple areas all centered around a common theme such as Asian Studies.

All certificate programs are open to current students pursuing a degree in any area, including areas outside of the College of Letters and Science. Some certificates are also open to non-degree seeking students or students who already hold a bachelor's degree either from UWM or from another university. Interested students should check with the director
Letters & Science: Humanities Courses

L&S HUM 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2014, Fall 2012, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

L&S HUM 289 Internship in Humanities, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of humanities in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in humanities; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

L&S HUM 293 Sophomore Scholars Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: soph st.
Course Rules: Open only to soph. Retakable w/chg in topic to 6 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

L&S HUM 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

L&S HUM 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

L&S HUM 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

L&S HUM 489 Internship in Humanities, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of humanities in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in humanities; 2.25 gpa; cons supervising faculty.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

L&S HUM 496 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Spring 2018, Fall 2017, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

L&S HUM 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

L&S HUM 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2013, Summer 1987.
Current Offerings: http://uwm.edu/schedule
L&S HUM 701 Topics in the Humanities:
1-3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st; cons instr
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

L&S HUM 800 Newberry Library Renaissance Seminar:
1-3 cr. Graduate.
Graduate seminars at the Newberry Library on such topics as philology, paleography, and archival sciences. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st; cons major adviser & chair of Renaissance Advisory Comm
Course Rules: Retakable w/topic chg to 9 cr max.
Current Offerings: http://uwm.edu/schedule

Letters & Science: Natural Sciences Courses

L&S NS 111 Introduction to the Practice of Pharmacy
1 cr. Undergraduate.
Overview of pharmacy, including historical perspectives. Specialization options, current issues and future trends; service learning component.
Prerequisites: cons L&S pre-health professions advisor.
Current Offerings: http://uwm.edu/schedule

L&S NS 120 STEM CELL Success and Career Seminar
1 cr. Undergraduate.
Strategies and practices to promote college success in STEM disciplines Retakable for cr to 4 cr max.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

L&S NS 289 Internship in Natural Sciences, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in natural sciences; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

L&S NS 295 Seminar in the Natural Sciences:
1-3 cr. Undergraduate.
Seminar on various topics in the natural sciences. Topic and prerequisites (if any) announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 6 cr max.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

L&S NS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Spring 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

L&S NS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

L&S NS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

L&S NS 489 Internship in Natural Sciences, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in natural sciences; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

L&S NS 496 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

L&S NS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule
L&S NS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

Letters & Science: Social Sciences Courses

L&S SS 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

L&S SS 268 Practicum in Mock Trial I
1-3 cr. Undergraduate.
Introduction to the issues, concepts, and practice of mock trial.
Prerequisites: none.
Course Rules: Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

L&S SS 289 Internship in Social Sciences, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of social sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in social sciences; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

L&S SS 291 UROP Seminar
1 cr. Undergraduate.
Discussion of the methodology and intellectual underpinnings of academic research. Required of all UROP participants.
Prerequisites: acceptance to UROP; conc reg in UROP apprenticeship.
Course Rules: Retakable to max 4 cr in any combination of L&S SS 291, 294, & 295.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

L&S SS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

L&S SS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2017, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

L&S SS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

L&S SS 468 Practicum in Mock Trial II
1-3 cr. Undergraduate.
Continuation of the study of the issues, concepts, and practice of mock trial.
Prerequisites: jr st; Commun/Pol Sci 268(P); satisfaction of GER English Composition competency req.
Course Rules: Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

L&S SS 489 Internship in Social Sciences, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of social sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in social sciences; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Last Taught: Fall 2014, Summer 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

L&S SS 496 UROP Apprenticeship, Upper-Level
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: Retakable to 9 cr max in any combination of UROP Apprenticeship courses.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

L&S SS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2017, Fall 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
**L&S SS 498 Washington Internship**
9 cr. Undergraduate.
Thirty-six hours of work per week in approved internships in Washington, D.C. supervised by the Washington Center for Learning Alternatives. Weekly seminar attendance.
**Prerequisites:** jr st, nomination by Washington Intern Committee, & conc reg in appropriate 699 or other independent study course.
**Course Rules:** Cr/no cr only.
**Last Taught:** Summer 2014, Spring 2013, Fall 2011, Summer 2011.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**L&S SS 499 Ad Hoc:**
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.
**Course Rules:** Retakable w/chg in topic.
**Last Taught:** Fall 1997, Spring 1997, Fall 1996.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**Honors Courses**

**HONORS 200 Honors Seminar: The Shaping of the Modern Mind:**
3 cr. Undergraduate.
Introduction to honors work through seminar study of basic texts and problems in the development of modern civilization.
**Prerequisites:** grade of B- or better in English 102(P) or score at level 4 on EPT; cons Honors College dir.
**Course Rules:** Not open to students w/cr in Honors courses at 300-level or above. Retakable once w/chg in topic. Students may not elect cr/no cr option.
**General Education Requirements:** HU, OWCB
**Last Taught:** Spring 2018, UWinteriM 2018, Fall 2017, Spring 2017.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HONORS 297 Study Abroad:**
1-9 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
**Prerequisites:** acceptance for Study Abroad Prog & cons Honors College dir.
**Course Rules:** Retakable w/chg in topic.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HONORS 299 Ad Hoc:**
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
**Prerequisites:** none; add'l prereqs may be assigned to specific topic.
**Course Rules:** Retakable w/chg in topic.
**Last Taught:** Spring 1995, Fall 1994, Spring 1994, Fall 1993.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HONORS 310 Introduction to Clinical Medicine for Premedical Students**
1 cr. Undergraduate.
Through both lecture/discussion and experience, students will explore various components of the medical profession in a clinical setting.
**Prerequisites:** soph st; Bio Sci 150 or Chem 102; cons both Honors College dir & premedical advisor, L&S.
**Last Taught:** Fall 2009, Fall 2008, Fall 2007, Fall 2006.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HONORS 350 Honors Seminar in the Humanities:**
3 cr. Undergraduate.
Seminar on inter-disciplinary topics or on the broader implications of a faculty member's research.
**Prerequisites:** soph st; Honors 200(P); cons Honors College Dir.
**Course Rules:** Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted.
**General Education Requirements:** HU
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HONORS 351 University Honors Seminar in the Social Sciences:**
3 cr. Undergraduate.
Seminar on inter-disciplinary topics or on the broader implications of a faculty member's research.
**Prerequisites:** soph st; Honors 200 (P); cons Honors College Dir.
**Course Rules:** Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted.
**General Education Requirements:** SS
**Last Taught:** Spring 2018, UWinteriM 2018, Fall 2017, Summer 2017.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HONORS 352 Honors Seminar in the Natural Sciences:**
3 cr. Undergraduate.
Seminar on inter-disciplinary topics or on the broader implications of a faculty member's research.
**Prerequisites:** soph st; Honors 200(P); cons Honors College dir.
**Course Rules:** Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted.
**General Education Requirements:** NS
**Last Taught:** Spring 2018, Fall 2017, Spring 2016, Spring 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HONORS 380 Honors Seminar in the Arts:**
3 cr. Undergraduate.
Selected topics in the theory and practice of creative and expressive arts. Taught by practicing artists.
**Prerequisites:** soph st; Honors 200(P); cons Honors College dir.
**Course Rules:** Retakable once w/chg in topic.
**General Education Requirements:** A
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**HONORS 497 Study Abroad:**
1-9 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
**Prerequisites:** jr st; acceptance for Study Abroad Prog; cons Honors College dir.
**Course Rules:** Retakable w/chg in topic.
**Last Taught:** Summer 2017, Summer 2013, Summer 2011.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
HONORS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 1996.
Current Offerings: http://uwm.edu/schedule

HONORS 685 Honors Tutorial
1-3 cr. Undergraduate.
Advanced study in interdisciplinary topics.
Prerequisites: jr st in Honors College, cons instr & Honors College dir.
Course Rules: Retakable to max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HONORS 686 Research in Honors
3-6 cr. Undergraduate.
Student assists with a faculty member's current research, then designs
and completes original major research paper under the faculty member's
supervision.
Prerequisites: jr st in Honors College, 9 cr in Honors, cons instr & Honors
College dir.
Course Rules: Retakable once to 6H cr max.
Current Offerings: http://uwm.edu/schedule

HONORS 687 Senior Honors Project
3-6 cr. Undergraduate.
Performance, exhibit, musical composition, or technical/professional
project completed under supervision of faculty member. For students in
majors in which a thesis is not appropriate.
Prerequisites: sr st in Honors College, cons instr & Honors College dir.
Course Rules: Not open for cr or enroll to students with Honors 689(ER).
Retakable once to 6H cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HONORS 689 Senior Honors Thesis
3-6 cr. Undergraduate.
Independent research project under faculty supervision. Honors with
Distinction awarded for successful completion of thesis.
Prerequisites: sr st in Honors College; cons instr & Honors College dir.
Course Rules: Not open for cr or enroll to students with Honors 687(ER).
Retakable once to 6H cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Administration
Dave Clark
Interim Dean

Daad Saffarini
Associate Dean, Natural Sciences

James Moyer
Associate Dean, Social Sciences

Jasmine Alinder
Interim Associate Dean, Humanities

Deanna Alba
Assistant Dean, College Relations, Marketing, Communication, PR

Mike Darnell
Assistant Dean, Curriculum, Governance, and Assessment

Patricia Kissinger
Assistant Dean, Unit Business Representative

Cindy Piercy
Interim Assistant Dean, Student Academic Services

Craig Wesley
Assistant Dean, Administrative Affairs and Personnel

Contact Information
Office of L&S Student Academic Services
Holton Hall, 142

Phone: (414) 229-4654
lsadvising@uwm.edu

uwm.edu/letters-science (http://uwm.edu/letters-science)
AFRICAN AND AFRICAN DIASPORA STUDIES

African and African Diaspora Studies is the discipline that studies the cultures, societies, and political economies of people of African descent in the United States and throughout the world. African and African Diaspora Studies uses both quantitative and qualitative methods of inquiry to describe, explain, evaluate, and predict the lived experiences of people of African descent. The major in African and African Diaspora Studies thus educates students in the best traditions of the liberal arts and sciences, providing them with a sound knowledge of the past, present, and future roles of people of African descent in structuring life in diverse societies. The department's courses are designed to satisfy the needs of students who desire to specialize in African and African Diaspora Studies or whose career objectives make it desirable to have knowledge of the people of African descent in the United States and throughout the world.

Students thinking of majoring or minoring in African and African Diaspora Studies are encouraged to contact the department for assistance at uwm.edu/african-diaspora-studies/contact-us.

Programs
- African and African Diaspora Studies, BA (p. 992)
- Africology, Minor (p. 996)
- Africology, PhD (p. 997)

African and African Diaspora Studies Courses

AFRICOL 100 Black Reality: Survey of African-American Society
3 cr. Undergraduate.
An introduction to key concepts, structures, and institutions in African-American societies.
Prerequisites: none.
General Education Requirements: HU, CD
Current Offerings: http://uwm.edu/schedule

AFRICOL 102 Survey of African-American Literature
3 cr. Undergraduate.
A survey of a variety of African-American literature.
Prerequisites: none.
General Education Requirements: CD, HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

AFRICOL 112 Introduction to African-American History, 1865 to the Present
3 cr. Undergraduate.
African-American history from the Reconstruction era to the present.
Prerequisites: none.
General Education Requirements: CD, HU
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

AFRICOL 125 Economics of the Black Community
3 cr. Undergraduate.
A survey of key economic principles, and elements that structure economic behavior in the black community.
Prerequisites: none.
General Education Requirements: SS, CD
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

AFRICOL 163 African-American Concept of Self
3 cr. Undergraduate.
Survey of the cultural, social and psychological origins of the contemporary view African Americans have of themselves.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

AFRICOL 192 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
Current Offerings: http://uwm.edu/schedule

AFRICOL 193 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2009, Fall 2008, Fall 2002, Fall 1997.
Current Offerings: http://uwm.edu/schedule

AFRICOL 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult the department chair.
Prerequisites: 2.5 GPA; writ cons inst; dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Course Type</th>
<th>Description</th>
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<td>Prerequisites: soph st.</td>
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<td>General Education Requirements: HU, CD</td>
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<td>Last Taught: Fall 2013, Fall 2010, Fall 2008, Fall 2007.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<td>Prerequisites: soph st.</td>
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<td>General Education Requirements: HU, CD</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<tr>
<td>AFRICOL 215</td>
<td>Introduction to Black Social and Cultural Traditions</td>
<td>3 cr.</td>
<td>Undergraduate</td>
<td>A consideration of the social and cultural traditions that ground the lives and experiences of black people.</td>
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<td>Prerequisites: none.</td>
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<td>General Education Requirements: CD, SS</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td>3 cr.</td>
<td>Undergraduate</td>
<td>The use of statistical methods and techniques in Africology. Data from the Afrworld (North and South America, Africa, and the Caribbean) will be analyzed.</td>
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<td>Prerequisites: Math 102(P), 103(106)(P), 105(P), or 108(P) or score level 30 on math placement exam.</td>
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<td>General Education Requirements: QLB</td>
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<td>Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<tr>
<td>AFRICOL 228</td>
<td>Introduction to Black Political Economy</td>
<td>3 cr.</td>
<td>Undergraduate</td>
<td>A survey of the interplay of the basic political and economic categories that structure the form and content of black life in America.</td>
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<td>Prerequisites: soph st.</td>
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<td>General Education Requirements: SS, CD</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<tr>
<td>AFRICOL 232</td>
<td>Survey of African Societies and Cultures</td>
<td>3 cr.</td>
<td>Undergraduate</td>
<td>A survey of continuities and changes in the social and cultural lives of the peoples of Black Africa.</td>
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<td>Prerequisites: soph st.</td>
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<td>General Education Requirements: SS</td>
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<td>Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2013.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<tr>
<td>AFRICOL 235</td>
<td>African Americans and South Africa</td>
<td>3 cr.</td>
<td>Undergraduate</td>
<td>The study of ideological, economic, religious, cultural, educational and political ties between African Americans and black South Africans from the 19th century to the present.</td>
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<td>Prerequisites: soph st or cons instr.</td>
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<td>General Education Requirements: HU</td>
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<td>Last Taught: Fall 2013, Fall 2001, Fall 1995.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<tr>
<td>AFRICOL 250</td>
<td>Black Women and White Women in the Contemporary United States</td>
<td>3 cr.</td>
<td>Undergraduate</td>
<td>The effect of economics, education, social structures and history on the role of black women in U.S. society.</td>
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<td>Prerequisites: soph st.</td>
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<td>General Education Requirements: SS</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<tr>
<td>AFRICOL 265</td>
<td>Psychological Effects of Racism</td>
<td>3 cr.</td>
<td>Undergraduate</td>
<td>Psychological and socio-psychological effects of individualized and institutionalized racism on blacks and whites. Emphasis is placed on a range of interactions between blacks and whites.</td>
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<td>Prerequisites: soph st.</td>
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<td>Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2014.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<tr>
<td>AFRICOL 289</td>
<td>Internship in Africology, Lower Division</td>
<td>1-6 cr.</td>
<td>Undergraduate</td>
<td>Application of basic principles of Africology in business, organizational, educational, political, or other appropriate setting.</td>
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<td>Prerequisites: 100- or 200-level Africol course; 2.25 gpa; cons supervising faculty member.</td>
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<td>Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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<tr>
<td>AFRICOL 297</td>
<td>Study Abroad</td>
<td>1-12 cr.</td>
<td>Undergraduate</td>
<td>Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.</td>
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<td>Prerequisites: acceptance for Study Abroad Prog.</td>
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<td>Course Rules: May be retaken w/chg in topic.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">Link</a></td>
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</tbody>
</table>
AFRICOL 299 Ad Hoc: Africa in the Re-Configuring Global System
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: [Link to schedule]

AFRICOL 300 Urban Violence
3 cr. Undergraduate/Graduate.
Analysis of the nature, causes, and consequences of urban violence; the
possibilities and limits of violence in promoting the good of blacks will be
scrutinized.
Prerequisites: jr st.
Last Taught: Fall 2016, Fall 2013, Fall 2012, Spring 2004.
Current Offerings: [Link to schedule]

AFRICOL 301 Research Methods in Africology
3 cr. Undergraduate.
A survey of research methods and techniques, and the uses of the
computer in data gathering and analysis in Africology.
Prerequisites: jr st; elementary stats course; or cons instr.
Last Taught: Fall 2016, Spring 2015, Fall 2012, Spring 2011.
Current Offerings: [Link to schedule]

AFRICOL 311 African Religious Thought and Social Organizations
3 cr. Undergraduate/Graduate.
A critical analysis of foundations from which complex social structures
and institutions evolved in the diverse societies of the Afroworld.
Prerequisites: jr st.
Current Offerings: [Link to schedule]

AFRICOL 312 The Church in African-American Life
3 cr. Undergraduate.
A study of the socio-cultural significance of the church in the evolution of
the black community.
Prerequisites: jr st.
Last Taught: Fall 2012, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: [Link to schedule]

AFRICOL 314 The School in African-American Life
3 cr. Undergraduate.
A study of the socio-cultural significance of the school in the evolution of
the black community.
Prerequisites: jr st.
Course Rules: Jointly offered with & counts as a repeat of Ed Pol
314(353).
General Education Requirements: CD, HU
Current Offerings: [Link to schedule]

AFRICOL 319 African American Urban History
3 cr. Undergraduate/Graduate.
A consideration of the contributions of blacks to the growth and
development of the American city.
Prerequisites: jr st.
Last Taught: Fall 2015, Fall 2013, Spring 2012, Spring 2011.
Current Offerings: [Link to schedule]

AFRICOL 320 Black Cultures in Latin America and the Caribbean
3 cr. Undergraduate.
African influence on Latin America and the Caribbean, and the cultures
of black peoples in several areas, particularly Brazil, Cuba, Haiti, Jamaica,
Trinidad, and Barbados.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2008.
Current Offerings: [Link to schedule]

AFRICOL 321 Black Workers in the 21st Century
3 cr. Undergraduate/Graduate.
Analysis of scientific and technological changes in America since 1900,
and their qualitative as well as quantitative impact on black productivity
and participation in the work force.
Prerequisites: jr st.
Current Offerings: [Link to schedule]

AFRICOL 322 Order and Disorder: The Quest for Social Justice
3 cr. Undergraduate/Graduate.
An analysis of the forms, purposes, and effects of order and disorder in
relation to black people’s quest for social justice.
Prerequisites: jr st.
Last Taught: Fall 2016, Spring 2010, Fall 2007, Fall 2006.
Current Offerings: [Link to schedule]

AFRICOL 323 Capitalism, Socialism, Nationalism and Fascism
3 cr. Undergraduate.
An analysis of the political philosophies of capitalism, socialism,
nationalism and fascism in relation to their significance for the
organization of political societies in the Afroworld.
Prerequisites: jr st.
Current Offerings: [Link to schedule]

AFRICOL 325 Africa/China Relations
3 cr. Undergraduate/Graduate.
Historical and emerging political and economic relationship between the
African continent and China.
Prerequisites: jr st.
Course Rules: Counts as a repeat of Africol 565 w/similar title.
Last Taught: Spring 2016, Fall 2015, Fall 2013, Summer 2012.
Current Offerings: [Link to schedule]

AFRICOL 326 Economic Problems of Black Business
3 cr. Undergraduate/Graduate.
Examination of major economic problems of black business; liquidity,
credit, market shares, insurance, rents, mortgages, and location are
analyzed in relation to black business performance.
Prerequisites: jr st.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Fall 2015.
Current Offerings: [Link to schedule]

AFRICOL 329 Economic Growth and Sustainable Development in Africa
3 cr. Undergraduate/Graduate.
Economic development in African countries; poverty reduction strategies,
role of education and health, Millennium Development Goals, agrarian
systems, international trade; U.S. as key trading partner.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [Link to schedule]
AFRICOL 334 Survey of Black American and Black Brazilian Societies
3 cr. Undergraduate.
Examines similarities and differences between peoples of African
descent in the United States and Brazil, with reference to society, culture,
and political economy.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 341 Black Politics and City Government
3 cr. Undergraduate.
An analysis of the impact of black politics on the decision-making
process of, and delivery of goods and services by, state and local
governments.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 344 Global Black Social Movements
3 cr. Undergraduate/Graduate.
Analysis of leadership, ideology, and the structure of black political
movements and organizations in the twentieth century.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 350 The Black Family
3 cr. Undergraduate/Graduate.
An examination of the structure and functions of the black family in its
urban and rural contexts.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 351 Sexuality, Gender, and Health in Africa and the Diaspora
3 cr. Undergraduate.
Drawing on cultural studies and social science approaches, this course
asks the question of how health and illness is socially and culturally
determined.
Prerequisites: jr st.
Last Taught: Spring 2018, Spring 2016, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

AFRICOL 352 Extended Families in Black Societies
3 cr. Undergraduate.
A critical cross-national/cross-cultural analysis of the structures and
functions of black extended families in the Americas and Africa.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 362 Philosophy and Thought in Africa and the Diaspora II
3 cr. Undergraduate.
Philosophical foundations of the intellectual tradition and political ideas
of Africa and the African diaspora after 1900.
Prerequisites: jr st.
Last Taught: Summer 2010, Fall 2008, Fall 2004, Fall 2003.
Current Offerings: http://uwm.edu/schedule

AFRICOL 369 Black Images and Mass Media
3 cr. Undergraduate.
An evaluation of how the mass media have affected the psyche of Black
people.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 370 Forms of Black Expression
3 cr. Undergraduate.
An analysis of elements of African traditions that have influenced the
literature, music, art, dance, and folkways (in the Afro-world, particularly in
the United States).
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 381 Honors Seminar:
3 cr. Undergraduate.
Selected topics in the political economy, cultures, and societies of the
Afroworld.
Prerequisites: soph st; Honors 200 (P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

AFRICOL 411 Change in African-American Communities
3 cr. Undergraduate.
An analysis of institutional and non-institutional forces that occasion
change in black communities.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 412 Blacks and the United States Constitution
3 cr. Undergraduate.
An analysis of the Constitution's impact on blacks, and the body of law
that has evolved from litigation involving the interests of black people.
Prerequisites: jr st.
Last Taught: Fall 2005, Fall 2001, Fall 2000, Fall 1999.
Current Offerings: http://uwm.edu/schedule

AFRICOL 414 The Black Woman in America, Africa, and the Caribbean
3 cr. Undergraduate.
A comparison of the roles and impact of the black women on American,
African and Caribbean societies.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule
AFRICOL 416 Race and Social Justice in the United States
3 cr. Undergraduate.
A study of the relation between race, injustice and social change in the United States.
Prerequisites: jr st; 300-level or above course in Africol; 2.25 gpa; cons writ instr, dept chair & asst dean for SAS.
Current Offerings: http://uwm.edu/schedule

AFRICOL 417 Race, Class and Gender in Southern Africa
3 cr. Undergraduate.
Race, class and gender as sources of conflict and cooperation in southern African societies.
Prerequisites: jr st or grad st.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Spring 2010.
Current Offerings: http://uwm.edu/schedule

AFRICOL 418 Race, Class, and Gender in Latin America and the Caribbean
3 cr. Undergraduate.
An analysis of race, class and gender in the evolution of political, economic, and social structures in Caribbean and Latin American societies.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 420 The Political Economy of Slavery
3 cr. Undergraduate.
Analysis of the political and economic contradictions of U.S. slavery; the value of free versus slave labor is scrutinized in the context of emerging capitalism.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 421 The Political Economy of Slavery
3 cr. Undergraduate.
Analysis of the political and economic contradictions of U.S. slavery; the value of free versus slave labor is scrutinized in the context of emerging capitalism.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 430 Culture, Race, and Gender
3 cr. Undergraduate.
An analysis of race, class and gender in the evolution of political, economic, and social structures in Caribbean and Latin American societies.
Prerequisites: jr st.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

AFRICOL 450 Cultural Transmissions: Black Africa and Black America
3 cr. Undergraduate/Graduate.
A cross-national and cross-cultural comparison of the societies and cultures of black Americans and black Africans.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 451 Rites of Passage in Black Societies
3 cr. Undergraduate/Graduate.
Foundations of the use of rites of passage in different societies throughout Africa and the African diaspora.
Prerequisites: jr st.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

AFRICOL 489 Internship in Africology, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Africology in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Africol; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

AFRICOL 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Program.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

AFRICOL 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one addl sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 1995.
Current Offerings: http://uwm.edu/schedule

AFRICOL 545 Raising Children, 'Race-ing' Children
3 cr. Undergraduate/Graduate.
Analysis of the social meaning of race in the US through the lens of childhood and adolescence; how children come to understand and navigate racism.
Prerequisites: jr st or grad st.
Course Rules: Counts as a repeat of Africol 565 w/similar topic.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

AFRICOL 565 Selected Texts/Topics in Africology
3 cr. Undergraduate/Graduate.
Examination of selected problems, issues, and themes in Africology.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

AFRICOL 699 Independent Study
1-6 cr. Undergraduate.
See Advanced Independent Study.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule

AFRICOL 700 Foundations and Theories in Africology
3 cr. Graduate.
Seminar on historical, theoretical and institutional development of Africology. Topics examined will include Pan-Africanism, Black Feminism, Afrocentrism, Diaspora Theory, Critical Race Theory, and others.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule
AFRICOL 701 Theories and Methods in Empirical Research in Africology  
3 cr. Graduate.  
Applicability of particular empirical theories and qualitative/quantitative  
methods to a range of substantive problems and issues pertaining to  
peoples of African descent.  
Prerequisites: grad st; approp upper-level math or stats course  
Current Offerings: http://uwm.edu/schedule

AFRICOL 705 Classic Works: Intellectual Production in Africa and the  
Diaspora I  
3 cr. Graduate.  
Conceptual and value foundations of normative theory in relation to  
forms of social organization.  
Prerequisites: grad st  
Current Offerings: http://uwm.edu/schedule

AFRICOL 706 Classic Works: Intellectual Production in Africa and the  
Diaspora II  
3 cr. Graduate.  
Advanced study of elements of normative theory such as justice, equality,  
freedom, and obligation in societal construction and reconstruction in  
Africa and the Diaspora.  
Prerequisites: grad st; Africol 705(P)  
Current Offerings: http://uwm.edu/schedule

AFRICOL 708 Critical Literary Theory I: Cultural Roots of Africological  
Literary Theory  
3 cr. Graduate.  
Exploitation and oppression as primary sources of Africological literary  
three; cultural components include identity, enemy, objective, strategy,  
and tactics.  
Prerequisites: grad st  
Last Taught: Fall 2017, Fall 2014, Fall 2013, Fall 2012.  
Current Offerings: http://uwm.edu/schedule

AFRICOL 709 Critical Literary Theory II: Modern Concepts in the African  
World  
3 cr. Graduate.  
Intensive examination of cardinal elements in critical literary theory in  
the context of ideas and behaviors that have shaped the lives of Africans and  
their descent historically.  
Prerequisites: grad st; Africol 708(P)  
Last Taught: Spring 2012.  
Current Offerings: http://uwm.edu/schedule

AFRICOL 799 Graduate Independent Study  
1-3 cr. Graduate.  
Independent work supervised by a member of the graduate faculty.  
Prerequisites: grad st; cons instr.  
Course Rules: Retakable w/ chg in topic to 9 cr max.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

AFRICOL 800 Introduction to Qualitative Research Methods in Africology  
3 cr. Graduate.  
Various qualitative methods and methodological issues germane to  
Africology, including archival research, interviewing, focus groups,  
participant observation, and analysis of representations.  
Prerequisites: grad st.  
Last Taught: Fall 2016, Spring 2014.  
Current Offerings: http://uwm.edu/schedule

AFRICOL 804 Qualitative Interviewing and Grounded Theory  
3 cr. Graduate.  
In-depth, hands-on examination of qualitative interviewing in research.  
Students design, conduct, and analyze qualitative interviews using  
grounded theory. Seminar-style course.  
Prerequisites: grad st; prior coursework in qualitative methods or cons  
instr.  
Course Rules: No cr for students who have cr in Africol 880 w/same  
topic.  
Last Taught: Fall 2014.  
Current Offerings: http://uwm.edu/schedule

AFRICOL 808 Critical Literary Theory II: Modern Concepts in the African  
World  
3 cr. Graduate.  
Investigation into public policy and development in Africa and the  
Diaspora.  
Prerequisites: grad st  
Last Taught: Spring 2012.  
Current Offerings: http://uwm.edu/schedule

AFRICOL 812 Political Economy: Conceptual  
3 cr. Graduate.  
Advanced analysis of varieties of conceptual frameworks in the literature  
of political economy.  
Prerequisites: grad st  
Current Offerings: http://uwm.edu/schedule

AFRICOL 814 Public Policies, Development, and Underdevelopment in  
Africa & the Diaspora  
3 cr. Graduate.  
Investigation into public policy and development in Africa and the  
Diaspora.  
Prerequisites: grad st  
Last Taught: Fall 2014.  
Current Offerings: http://uwm.edu/schedule

AFRICOL 816 Political Economy of Development in African Countries  
3 cr. Graduate.  
The importance of political institutions in shaping economic performance  
to advance understanding of economic development in the context of  
sub-Saharan African countries.  
Prerequisites: grad st.  
Last Taught: Fall 2011.  
Current Offerings: http://uwm.edu/schedule

AFRICOL 817 Political Economy of Development in African Countries II  
3 cr. Graduate.  
Growth-enhancing governance, economic performance, and economic  
development in sub-Saharan African Countries.  
Prerequisites: grad st; Africol 816(P) or cons instr.  
Course Rules: Counts as repeat of Africol 880 w/same topic.  
Last Taught: Spring 2013.  
Current Offerings: http://uwm.edu/schedule
AFRICOL 818 Race Matters: Government and Politics in Latin America and the Caribbean
3 cr. Graduate.
Presence, role, status, situation, and conditions of Afro-Americans (Afro-Latins and Afro-Caribbeans) in the Americas, from the federal republic of Mexico to the Argentine republic.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

AFRICOL 820 Political Economy of Income and Wealth Inequality
3 cr. Graduate.
Seminar on economic inequality, with special emphasis on the United States. No cr for students who have cr in Africol 880 w/same topic.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

AFRICOL 821 Race and Inequality
3 cr. Graduate.
Discrimination and racial inequality along socio-economic dimensions.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

AFRICOL 834 Seminar on Slavery
3 cr. Graduate.
Culture and political economy of slavery; historical context for American slavery; slavery as political and economic issue; social-psychology of slavery; persistence of slavery's legacies.
Prerequisites: grad st
Last Taught: Spring 2012.
Current Offerings: http://uwm.edu/schedule

AFRICOL 836 Comparative Social Institutions in African World Communities
3 cr. Graduate.
Origins, nature, and functioning of social institutions in African world communities; continuity and change; development of community and cultural identities of Africans and their descendents; theoretical/analytical approaches.
Prerequisites: grad st
Last Taught: Fall 2013.
Current Offerings: http://uwm.edu/schedule

AFRICOL 837 Memory and Tradition: Identity-Making and Memory in the African Diaspora
3 cr. Graduate.
Role of memory and tradition in forming collective and individual identities in the African Diaspora; symbolic value and functional aspects; focus on sub-Saharan Africa.
Prerequisites: grad st
Last Taught: Spring 2017, Fall 2010.
Current Offerings: http://uwm.edu/schedule

AFRICOL 840 Healing Traditions in the African Diaspora
3 cr. Graduate.
Advanced study of healing traditions, practices, and rituals throughout the African Diaspora.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

AFRICOL 845 Race/Ethnicity and the Psychology of Oppression
3 cr. Graduate.
Psychological processes involved in creating and sustaining oppressive societies; emphasis on the role of racism societally and the impact of oppression on individuals and groups.
Prerequisites: grad st
Last Taught: Fall 2015, Spring 2012.
Current Offerings: http://uwm.edu/schedule

AFRICOL 851 African-American Literary Theory and Criticism
3 cr. Graduate.
An intensive study of historical and contemporary trends in African-American literary criticism and theory.
Prerequisites: grad st
Last Taught: Fall 2013.
Current Offerings: http://uwm.edu/schedule

AFRICOL 852 Folklore in the African World:
3 cr. Graduate.
A close scrutiny of a particular forms of folk literature of people of African descent.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

AFRICOL 862 Development of African-American Children in Urban and Rural Areas
3 cr. Graduate.
Developmental processes facing African-American children, including identity development and racial socialization, impact of environment, notion of 'a single African-American identity;' theories and methodological approaches.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

AFRICOL 865 The Quest for Pan-Africanism
3 cr. Graduate.
History and future motion of movement to create a united Africa; political, economic, and social barriers to unification; united Africa in the global community.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

AFRICOL 866 Black Power Reconsidered
3 cr. Graduate.
The salience of black power in the context of campaigns for educational equality; urban politics, economic justice, residential segregation, urban renewal, anti-colonial struggle, and cultural politics.
Prerequisites: grad st.
Course Rules: No cr for students w/cr in Africol 880 w/similar title.
Current Offerings: http://uwm.edu/schedule

AFRICOL 867 Problems in African American Urban History
3 cr. Graduate.
Ways scholars have conceptualized and interpreted 20th century African American urban life; assumptions and logic that undergird various approaches; potential intellectual and political implications.
Prerequisites: grad st.
Course Rules: No cr for students w/cr in Africol 880 with similar title.
Current Offerings: http://uwm.edu/schedule
AFRICOL 868 Black Intellectuals and the Public Sphere
3 cr. Graduate.
How black intellectuals have defined knowledge and positioned
themselves politically and professionally; the various spheres in which
they operate.
Prerequisites: grad st.
Last Taught: Spring 2015.
Current Offerings: http://uwm.edu/schedule

AFRICOL 880 Seminar on Issues in Africology:
3 cr. Graduate.
Research seminar on issues of interest in Africology.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

AFRICOL 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load
requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr will be assessed.
Current Offerings: http://uwm.edu/schedule

AFRICOL 990 Dissertation Research
1-3 cr. Graduate.
Research or dissertation work for students in the doctoral program.
Prerequisites: grad st; cons instr.
Course Rules: Retakable as necessary to complete the dissertation.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osei-Mensah</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
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<tr>
<td>Aborampah</td>
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<tr>
<td>Peter Akubeze</td>
<td>Senior Information</td>
<td>PhD</td>
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<tr>
<td></td>
<td>Processing Consultant</td>
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<tr>
<td>Patrick Bellegarde-Smith</td>
<td>Professor</td>
<td>PhD</td>
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</tr>
<tr>
<td>Abera Gelan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Ermitte Saint Jacques</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Florida</td>
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<tr>
<td>Joyce F. Kirk</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Nolan Kopkin</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Cornell University</td>
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<tr>
<td>Doreatha D. Mbalia</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Harwood Mclerking</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
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</tr>
<tr>
<td>Gladys Mitchell-Walthour</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
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<tr>
<td>Jeffrey Sommers</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Northeastern University</td>
<td></td>
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<tr>
<td>Anika Wilson</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Pennsylvania</td>
<td></td>
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</tr>
<tr>
<td>Erin N. Winkler</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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</tr>
</tbody>
</table>

African and African Diaspora Studies, BA

African and African Diaspora Studies examines cultures, societies
and political economies of peoples of African origin and desent. This
includes not just peoples of the African continent but everyone with
African roots around the globe, often referred to as the African diaspora.
The study of African and African Diaspora Studies is relevant to everyone,
regardless of race, gender, ethnicity, nationality or religion. You will
find value in the program if you are interested in working within the
U.S. or internationally in health services, education, journalism, social
work, politics, law, business, the non-profit sector, trade, the arts and
government agencies.

Through coursework in history, literature, political science, economics,
and more, students will examine a variety of issues and themes through
an African-centric lens. Along the way, they will be honing their skills in
communication, information analysis, and research - all skills cited by
employers as critically important in their hiring process.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters &
Science and with 36 of the 90 credits in L&S upper-level (numbered
above 300) courses. The College requires that students must complete
in residence at UWM at least 15 credits in upper-division (numbered 300
or above) courses in their major. Students are also required to complete
University-wide General Education Requirements and the specific L&S
requirements listed below.

To complete a major, students must satisfy all the requirements of the
major as stated in this catalog. Students who declare their majors within
five years of entering the UW System as a degree candidate may satisfy
the requirements outlined in any catalog issued since the time they
entered. Credits used to satisfy the major also may be used to satisfy
other degree requirements.
### University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
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<td></td>
<td><strong>Part A</strong></td>
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<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
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<td></td>
<td><strong>Part B</strong></td>
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<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
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<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
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<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td>3</td>
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<tr>
<td></td>
<td>Or equivalent course</td>
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<td></td>
<td><strong>Part B</strong></td>
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<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td><strong>Arts</strong></td>
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<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
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<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
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<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
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<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
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<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
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<td></td>
<td>Or equivalent</td>
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<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
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<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

### College of Letters & Science Requirements

#### I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

#### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 175 Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.*

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 or more credits in any 200-level or above Math course</td>
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</tr>
<tr>
<td></td>
<td>AFRICOL 220 Introduction to Statistics in Africology</td>
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<td></td>
<td>ANTHRO 568 Introduction to Anthropological Statistics</td>
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<tr>
<td></td>
<td>ATM SCI 500 Statistical Methods in Atmospheric Sciences</td>
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<tr>
<td></td>
<td>BIO SCI 465 Biostatistics</td>
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<tr>
<td></td>
<td>ECON 210 Economic Statistics</td>
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<tr>
<td></td>
<td>GEOG 247 Quantitative Analysis in Geography</td>
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<tr>
<td></td>
<td>HIST 595 The Quantitative Analysis of Historical Data</td>
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<tr>
<td></td>
<td>MTHSTAT 215 Elementary Statistical Analysis</td>
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<tr>
<td></td>
<td>PHILOS 211 Elementary Logic</td>
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<tr>
<td></td>
<td>POL SCI 390 Political Data Analysis</td>
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<tr>
<td></td>
<td>POL SCI 392 Survey Research</td>
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<tr>
<td></td>
<td>PSYCH 210 Psychological Statistics</td>
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<tr>
<td></td>
<td>SOCIOL 261 Introduction to Statistical Thinking in Sociology</td>
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</tr>
</tbody>
</table>

*Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.*

#### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part B, listed above.*
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td>9</td>
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</tbody>
</table>

Completed in one of the following ways:

- Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above
- Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.
- Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>3</td>
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</table>

Select 3 credits

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>12</td>
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</tbody>
</table>

Complete 12 credits of L&S Courses with Humanities Breadth designation; no more than 6 credits from a single subject area.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>12</td>
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</table>

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
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<td>12</td>
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</tbody>
</table>

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
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<td>3</td>
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</table>

Complete 3 credits in a course with Cultural Diversity (CD) designation.

** Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

African and African Diaspora Major Requirements
All majors must be accepted by the department, and their programs must be arranged with a departmental advisor. To be retained as majors, students must maintain a GPA of 2.500 or better in African and African Diaspora courses attempted at UWM. In addition, students must attain a 2.500 GPA in all major courses attempted, including any transfer work. A total of 36 credits is required to complete the major; 15 credits at the 300 level or above must be taken in residence at UWM.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

African and African Diaspora Studies Requirements

- AFRICOL 215 Introduction to Black Social and Cultural Traditions
- AFRICOL 220 Introduction to Statistics in Africology
- AFRICOL 228 Introduction to Black Political Economy
- AFRICOL 301 Research Methods in Africology

Specialization
Select at least 12 credits in one of the following options:

Option A: Political Economy
option B: Culture and Society

<table>
<thead>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
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<td></td>
<td>3-6</td>
</tr>
</tbody>
</table>

Select up to 6 credits in the other option

Select up to 6 credits at the 100 level

Research Requirement
Select one of the following:

- AFRICOL 300 Urban Violence
- AFRICOL 319 African American Urban History
- AFRICOL 320 Black Cultures in Latin America and the Caribbean
- AFRICOL 321 Black Workers in the 21st Century
- AFRICOL 326 Economic Problems of Black Business
- AFRICOL 329 Economic Growth and Sustainable Development in Africa
- AFRICOL 341 Black Politics and City Government
- AFRICOL 344 Global Black Social Movements
- AFRICOL 352 Extended Families in Black Societies
- AFRICOL 372 African-American Literary Movements: The Harlem Renaissance
- AFRICOL 414 The Black Woman in America, Africa, and the Caribbean
- AFRICOL 699 Independent Study

Total Credits: 33-39

1 With departmental approval, the statistics requirement may be satisfied with another statistics course.
With departmental approval, the research methods requirement may be satisfied with another methods course.

AFRICOL 100 is highly recommended. Though not required, 100-level courses prepare students for higher-level African and African Diaspora courses. No more than 6 credits of 100-level courses can count toward the major.

With departmental approval, students can complete 3 credits in AFRICOL 699 that involves completion of a research experience designed according to departmental standards.

Options
Majors specialize in one of two options: political economy or culture and society.

**Option A: Political Economy**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 235</td>
<td>African Americans and South Africa¹</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 261</td>
<td>Survey of African-American Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 300</td>
<td>Urban Violence</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 321</td>
<td>Black Workers in the 21st Century</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 322</td>
<td>Order and Disorder: The Quest for Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 323</td>
<td>Capitalism, Socialism, Nationalism and Fascism</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 325</td>
<td>Africa/China Relations</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 334</td>
<td>Survey of Black American and Black Brazilian Societies¹</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 341</td>
<td>Black Politics and City Government</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 344</td>
<td>Global Black Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 362</td>
<td>Philosophy and Thought in Africa and the Diaspora II</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 381</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 411</td>
<td>Change in African-American Communities¹</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 412</td>
<td>Blacks and the United States Constitution</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 416</td>
<td>Race and Social Justice in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 417</td>
<td>Race, Class and Gender in Southern Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 420</td>
<td>The Political Economy of Slavery</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 489</td>
<td>Internship in Africology, Upper Division¹</td>
<td>1-6</td>
</tr>
<tr>
<td>AFRICOL 565</td>
<td>Selected Texts/Topics in Africology:¹</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 699</td>
<td>Independent Study:</td>
<td>1-6</td>
</tr>
</tbody>
</table>

¹ These courses may count as either Option A or B.

**Option B: Culture and Society**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 210</td>
<td>The African-American Novel</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 232</td>
<td>Survey of African Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 235</td>
<td>African Americans and South Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 250</td>
<td>Black Women and White Women in the Contemporary United States</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 261</td>
<td>Survey of African-American Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 265</td>
<td>Psychological Effects of Racism</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 311</td>
<td>African Religious Thought and Social Organizations</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 312</td>
<td>The Church in African-American Life</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 314</td>
<td>The School in African-American Life</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 319</td>
<td>African American Urban History</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 334</td>
<td>Survey of Black American and Black Brazilian Societies¹</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 350</td>
<td>The Black Family</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 352</td>
<td>Extended Families in Black Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 369</td>
<td>Black Images and Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 370</td>
<td>Forms of Black Expression</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 372</td>
<td>African-American Literary Movements: The Harlem Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 381</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 414</td>
<td>Change in African-American Communities¹</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 417</td>
<td>The Black Woman in America, Africa, and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 450</td>
<td>Cultural Transmissions: Black Africa and Black America</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 451</td>
<td>Rites of Passage in Black Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 489</td>
<td>Internship in Africology, Upper Division¹</td>
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<td>AFRICOL 699</td>
<td>Independent Study:</td>
<td>1-6</td>
</tr>
</tbody>
</table>

¹ These courses may count as either Option A or B.

**Cross-Listed Courses**

The following courses offered by other departments may be used to satisfy the requirements of the undergraduate major or minor in African and African Diaspora Studies.

<table>
<thead>
<tr>
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<tr>
<td>ENGLISH 381</td>
<td>World Literatures Written in English: (African Fiction)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 517</td>
<td>Studies in African-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 631</td>
<td>Seminar in African-American Literature:</td>
<td>3</td>
</tr>
</tbody>
</table>
Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Name           Title                        
Ermitte Saint Jacques: saintjac@uwm.edu Undergraduate Advisor
Jeffrey Sommers: sommerjw@uwm.edu Department Chair

Honors in the College of Letters and Science
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Africology, Minor
African and African Diaspora Studies examines cultures, societies and political economies of peoples of African origin and descent. This includes not just peoples of the African continent but everyone with African roots around the globe, often referred to as the African diaspora. The study of African and African Diaspora Studies is relevant to everyone, regardless of race, gender, ethnicity, nationality or religion. You will find value in the program if you are interested in working within the U.S. or internationally in health services, education, journalism, social work, politics, law, business, the non-profit sector, trade, the arts and government agencies.

Through coursework in history, literature, political science, economics, and more, students will examine a variety of issues and themes through an African-centric lens. Along the way, they will be honing their skills in communication, information analysis, and research - all skills cited by employers as critically important in their hiring process.

Requirements
The purpose of the minor is to expose students to a range of concepts, theories and phenomena that ground the discipline of African and African Diaspora Studies. Students are required to take 18 credits, 12 of which must be completed at or above the 300 level. Up to 6 credits at the 100 level may count toward the minor. Nine credits at the 300 level or above must be taken in residences at UWM. The College of Letters and Science requires that students attain at least a 2.500 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Cross-Listed Courses
The following courses offered by other departments may be used to satisfy the requirements of the undergraduate major or minor in African and African Diaspora Studies.

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<tr>
<td>ENGLISH 631</td>
<td>Seminar in African-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>FILM 301</td>
<td>Conversations with Filmmakers and Critics (Radical Black Film)</td>
<td>3</td>
</tr>
</tbody>
</table>
Africology, PhD

The PhD in African and African and Diaspora Studies is grounded in the axiomatic assumption that, as the imperatives of global integration significantly transform human relations, the twenty-first century will witness an exponential expansion of the institutional delivery of Africological knowledge. Across the planet today, Africa remains the only continent with a vast store of natural resources (e.g., uranium, oil, copper, nickel) that are underutilized. With the demand for energy increasing exponentially worldwide, knowledge and understanding of the cultures and political economies of African countries and societies clearly are in the self-interest of the global community. Because of this twenty-first century imperative, the Department of African and African and Diaspora Studies has designed the PhD degree around two concentrations: Political Economy and Public Policy, and Culture and Society: Africa and the African Diaspora.

The fields of concentration are the substantive core of the PhD program. Political economy entails the normative and empirical relations of political and economic phenomena in given sociocultural contexts. Public policy entails the making of binding, authoritative decisions that produce, allocate, reproduce, and reallocate societal resources. Political, economic, cultural, and social elements interact continually in every political economy, and public policy substantially frames their patterns of interaction. Through a range of research methods and techniques, the concentration in political economy and public policy grounds students in local, national, and transnational political economies and public policies. Relevant courses and seminars in such fields as economics, political science, sociology, urban planning, geography, and history will be utilized.

All cultures share in common at least eight attributes. These are species life, species being, language, religion, food, literature-art-science-technology, institutions, and transgenerational memory. Systematic comparisons of these elements of cultures in Africa and in the African Diaspora worldwide afford sound explanations of, and novel insights into, the behaviors of Africans and their descent. This concentration in comparative cultures will enable students to scrutinize rigorously exchanges, admixtures, fusions, retentions, and disappearances of cultural elements in Africa and the African Diaspora in regard to their contemporary significance. Relevant courses and seminars in English, foreign languages and literatures, history, and sociology will complement those offered in the department.

Advising

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter Okey Akubeze:</td>
<td>Graduate Advisor</td>
</tr>
<tr>
<td><a href="mailto:Sommerjw@uwm.edu">Sommerjw@uwm.edu</a></td>
<td></td>
</tr>
<tr>
<td>Jeffrey Sommers:</td>
<td>Department Chair</td>
</tr>
<tr>
<td><a href="mailto:akubeze@uwm.edu">akubeze@uwm.edu</a></td>
<td></td>
</tr>
<tr>
<td><a href="mailto:sommerjw@uwm.edu">sommerjw@uwm.edu</a></td>
<td></td>
</tr>
</tbody>
</table>

Admission

To be considered for admission, an applicant must meet UWM Graduate Faculty requirements for admission plus the departmental requirements listed below. A master’s degree is not a prerequisite for this PhD program.

1. Possession of an overall undergraduate grade point average of 3.33 (B+)
2. Submission of scores within the last five years from the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre)
3. Submission of three letters of recommendation from individuals who are familiar with the applicant’s academic work
4. Submission of a writing sample (10-15 pages) of the applicant’s written work, signaling one’s aptitude for graduate study

Normally, students are admitted only for the fall semester. However, in extraordinary circumstances, a student may be permitted to begin PhD studies in the spring semester. The department does not offer a terminal M.A. degree. Students applying without a master’s degree are admitted to the PhD program in the equivalent of master’s status.

Admission to the graduate program is based on a careful review of the applicant’s academic qualifications, and is highly competitive. Successful candidates usually have a high grade point average (GPA) in their undergraduate majors, as well as overall. There are, of course, a variety of factors that come into play over the years of an applicant’s studies, and so the admissions committee will consider closely a student’s academic profile, as well as accomplishments that are germane to his/her application.

It is the policy of the Graduate Faculty that “Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.”

Language or Mathematics/Statistics Proficiency

Students are expected to enter the PhD program with proficiency in a language other than English and/or in mathematics/statistics. Students may satisfy the language requirement by passing a translation examination administered by a faculty member, or by completing, with a grade of C or better, the final course in a four-semester sequence in a language approved by the department. Native speakers of a departmentally approved language may petition the graduate advisor for an exemption to the foreign language requirement.

Proficiency in mathematics/statistics is indicated by completion of two courses at the upper-division level (numbered 300 and above or requiring junior standing) with at least a B average. Students who have not completed this requirement in the context of their undergraduate (or master’s degree) studies must take courses to satisfy the requirement during their PhD studies.

Credits earned in satisfying this requirement do not count toward the required credits for the PhD degree. The language or mathematics/statistics proficiency requirement must be completed prior to the doctoral preliminary examinations. Students are encouraged strongly to have the proficiency requirements completed by the time they take the comprehensive examination.
Credits and Courses

The PhD degree requires completion of at least 54 graduate credits—48 credits of coursework, and 6 dissertation credits. Students may count up to a maximum of 6 credits in dual level undergraduate/graduate courses toward the degree. Precise numbers of credits and actual course requirements will be determined after review of the applicant's previous coursework.

Required

During the first three semesters in the program, the following courses in Forms of Reasoning are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AFRICOL 700</td>
<td>Foundations and Theories in Africology</td>
<td>12</td>
</tr>
<tr>
<td>AFRICOL 701</td>
<td>Theories and Methods in Empirical Research in Africology</td>
<td></td>
</tr>
<tr>
<td>AFRICOL 705</td>
<td>Classic Works: Intellectual Production in Africa and the Diaspora I</td>
<td></td>
</tr>
<tr>
<td>AFRICOL 708</td>
<td>Critical Literary Theory I: Cultural Roots of Africological Literary Theory</td>
<td></td>
</tr>
</tbody>
</table>

Area of Concentration/Electives 36

Dissertation 6

AFRICOL 990 Dissertations Research

Total Credits 54

Fields of Concentration

Following completion of the core courses, students must select one of two concentrations. The Department of African and African Diaspora Studies has been structured conceptually and empirically around two fields of concentration: Political Economy and Public Policy, and Culture and Society: Africa and the African Diaspora. Students will select one of these concentrations by the end of their comprehensive exams and will work with their faculty advisor to develop an appropriate program of study. In consultation with their faculty advisor, students may elect to take a concentration of 6 to 9 credits outside of the Department.

Program Requirements

Major Professor as Advisor

Upon admission to the program, students are required to consult with the Director of Graduate Studies about the department's expectations of them, as well as elucidate their own expectations of the department. Soon afterward, students must secure individual advisors, drawn from the department's faculty.

Residence

The student must complete at least half of the graduate credits required for the PhD in residence (http://uwm.edu/graduateschool/doctoral-requirements/#residence) at UWM in doctoral status. In addition, the student must complete at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

The Comprehensive Examination

Prior to the end of each entering student's third semester of enrollment, s/he is required to take and pass the department's graduate student comprehensive examination (written and oral) in order to continue his/her studies toward the PhD degree. There are no exceptions to this requirement. The comprehensive examination is administered in the spring and fall semesters of each academic year.

The examination will be administered by three (3) members of the department's faculty, who will grade the written work and conduct the orals. Members of the examination committee rotate each academic year. Students must pass the written examination to be eligible for the oral examination.

Students who pass the comprehensive examination are permitted to proceed toward the PhD degree. Failing the exam will result in a recommendation to the Graduate School for the student's academic dismissal. The comprehensive examination is not repeatable. Upon passing the exam, students continue to take courses in the concentrations in preparation for the doctoral preliminary examinations and independent research.

The Doctoral Preliminary Examinations

Students will take written and oral doctoral preliminary examinations in two of their three fields of concentration, which they will select.

To be eligible to take the preliminary examinations, which are administered in the fall and spring semesters of each academic year, student must:

- Be registered.
- Have an overall GPA of at least 3.0 (B), at the time of the examination.
- Have completed all coursework—there shall be no incompletes (Is) at the time of the examination.
- Have satisfied the foreign language or mathematics/statistics requirement.
- Have made one presentation to the department's faculty as a whole in the Departmental Faculty Colloquium Series. The purpose of the presentation is to <refine a student's knowledge of a given subject; socialize students in the rigors of making scholarly presentations on one's research before future peers; and prepare students for the demands of interviews for future jobs. A student will not be judged to either have passed or failed the presentation. Rather, s/he will be given constructive comments concerning the substance and style of his/her presentation. Generally, each colloquium will last for two (2) hours.
- Have fulfilled all residency requirements.
- Have secured, in addition to their primary departmental advisor, a secondary advisor from outside the department should they plan to use their extra-departmental field of concentration as one of the two written-examination fields.

Those who pass the written examinations with a grade of at least a B on each shall then proceed to take the oral examination. Should a student fail one of the two written examinations, s/he upon petition to the Director of Graduate Studies and the Graduate Studies Committee, may be permitted to retake it at the next scheduled examination cycle. Students who fail both written examinations will not be permitted to retake them.

Failure of both written examinations, or the retake of a written examination, or the oral examination, will result in a recommendation to the Graduate School for the student's academic dismissal. Students who pass the preliminary examinations shall proceed to prepare a dissertation prospectus.
The preliminary examinations must be taken within five years of enrollment in the PhD program.

A student’s dissertation committee shall consist of four (4) graduate faculty members, including his/her major professor. At least three (3) of the four members must be from the Department of African and African Diaspora Studies.

**Dissertation Prospectus (Proposal Hearing)**

Prior to undertaking research for the dissertation, a student is required to prepare a dissertation prospectus, with the advice and consent of his/her advisor and Dissertation Committee. Acceptance of the dissertation proposal establishes an agreement between the student and the Dissertation Committee as to the nature and scope of the research to be conducted, and the procedure for completing the dissertation. Prior to the Dissertation Committee's approval of the prospectus, research involving the use of human subjects must receive the approval of the Institutional Review Board.

**Dissertator Status**

Specific requirements which must be completed before a doctoral student qualifies for dissertator status are described on the Graduate School Doctoral Requirements page.

**Dissertation**

The dissertation is a major piece of original research representing a substantial contribution to an existing body of knowledge. The original research findings embodied in the dissertation should be acceptable for publication in a refereed journal. The student's advisor and Dissertation Committee provide guidance in completing the dissertation. Once a student's dissertation has been approved by his/her advisor and Dissertation Committee, the document, in approved Graduate School format, is ready to be filed with the Graduate School.

**Time Limit**

It is expected that students entering the program with a baccalaureate degree should normally complete their PhD degree within six (6) years. However, because circumstances beyond a student's control may prevent completion of requirements according to this timeline, students will be granted a maximum of ten years to complete the degree.
AMERICAN INDIAN STUDIES

The American Indian Studies Program offers an undergraduate major through the Committee Interdisciplinary Major and an undergraduate certificate in American Indian Studies. These academic programs draw primarily on courses from anthropology, history, literature, sociology, and education to help students develop a depth of knowledge about — and methodological skills for studying — the life experiences, culture, and languages of the native peoples of the Americas. Although interdisciplinary, American Indian Studies encompasses a distinct body of knowledge. The program's faculty and staff members are involved in ongoing research and publication in this discipline as well as related academic disciplines.

There are two distinct features that distinguish UWM's academic programs in American Indian Studies. The Electa Quinney Institute (https://uwm.edu/eqi) is a campus resource that facilitates the development of new programs, services, and research opportunities in partnership with the American Indian community. UWM also is home to more American Indian faculty than any other school in the UW System.

Programs

- American Indian Studies, Undergraduate Certificate (p. 1004)
- Anishinaabe Language, Undergraduate Certificate (p. 1005)
- Committee Interdisciplinary Major, BA: American Indian Studies (p. 1006)

American Indian Studies Courses

AIS 101 Introduction to American Indian Studies
3 cr. Undergraduate.
Indigenous experience in the land now called U.S.A.; colonization, tradition and spirituality, indigeneousness and sovereignty; current issues, e.g., language preservation, treaty rights, social justice. Theoretical approaches.
Prerequisites: none.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

AIS 105 Anishinaabe Ethnobotany: Plants in Anishinaabe Culture
3 cr. Undergraduate.
Anishinaabe botanical knowledge as it relates to Anishinaabe culture.
Prerequisites: none.
Course Rules: No cr for students who have cr in Bio Sci 105.
General Education Requirements: CD
Last Taught: Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AIS 106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy
3 cr. Undergraduate.
Anishinaabe philosophical and religious beliefs incorporating botanical knowledge.
Prerequisites: none.
Course Rules: AIS 106 & ReligSt 106 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

AIS 151 First-Semester Anishinaabemowin (Ojibwe)
4 cr. Undergraduate.
First-semester speaking, listening, and writing skills in Anishinaabemowin (Ojibwe), the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa, and Potawatomi nations.
Prerequisites: none.
Course Rules: Counts toward L&S Language Requirement and Foreign Language GER. Satisfies Cultural Diversity GER.
General Education Requirements: CD
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AIS 152 Second-Semester Anishinaabemowin (Ojibwe)
4 cr. Undergraduate.
Second-semester speaking and listening skills in Ojibwe; continued study of the culture of native Ojibwe speakers.
Prerequisites: AIS 151 or level 2 placement. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

AIS 192 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: CD, HU
Current Offerings: http://uwm.edu/schedule

AIS 193 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: CD, SS
Current Offerings: http://uwm.edu/schedule

AIS 199 Independent Study
3 cr. Undergraduate.
Independent work supervised by a member of the AIS Program instructional staff.
Prerequisites: 2.5 GPA; writ cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule
AIS 203 Western Great Lakes American Indian Community Life of the Past
3 cr. Undergraduate.
Study of western Great Lakes American Indian community life of the past, with an emphasis on pre-European conditions, social organizations, value systems, family life, ceremonial life.
Prerequisites: none.
Course Rules: Counts as a repeat of Ethnic 203.
General Education Requirements: SS, CD
Last Taught: Fall 2017, Fall 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

AIS 225 The Aztec Empire
3 cr. Undergraduate.
Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives.
Prerequisites: none.
Course Rules: AIS 225 & Anthro 225 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

AIS 251 Third Semester Anishinaabemowin (Ojibwe)
4 cr. Undergraduate.
Third-semester speaking, listening and writing skills in Anishinaabemowin, the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa and Potawatomi nations.
Prerequisites: AIS 152 or level 3 placement. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Course Rules: Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER.
General Education Requirements: CD
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AIS 252 Fourth Semester Anishinaabemowin (Ojibwe)
4 cr. Undergraduate.
Fourth-semester speaking, listening and writing skills in Anishinaabemowin the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa and Potawatomi nations.
Prerequisites: AIS 251 or level 4 placement. Generates L&S credit for demonstrated equivalent preparation (12retro cr).
Course Rules: Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

AIS 262 North American Indian History to 1887
3 cr. Undergraduate.
A survey of Native American history from aboriginal times to 1887. Emphasis will be placed on American policies and change within Indian societies.
Prerequisites: none.
Course Rules: AIS 262 & Hist 262 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

AIS 263 North American Indian History Since 1887
3 cr. Undergraduate.
A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century.
Prerequisites: none.
Course Rules: AIS 263 & Hist 263 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

AIS 276 Introduction to American Indian Literature:
3 cr. Undergraduate.
Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe of time period.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: AIS 276 & English 276 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
General Education Requirements: HU, CD
Current Offerings: http://uwm.edu/schedule

AIS 289 Internship in American Indian Studies, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of American Indian Studies in a business, organizational, educational, political, or other appropriate settings.
Prerequisites: AIS 101(P); 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

AIS 296 UROP Apprenticeship, Lower Division
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

AIS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

AIS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule
AIS 308 Archaeology of North America
3 cr. Undergraduate/Graduate.
Main pre-Columbian cultures on the North American continent, north of Mexico.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

AIS 310 Archaeology of Middle America
3 cr. Undergraduate/Graduate.
Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2015.
Current Offerings: http://uwm.edu/schedule

AIS 311 The World of the Ancient Maya
3 cr. Undergraduate/Graduate.
Historical development of ancient Maya civilization from its origins to the Spanish Conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

AIS 314 American Indian Societies and Cultures
3 cr. Undergraduate/Graduate.
Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.
Prerequisites: jr st; Anthro 102(R).
Course Rules: AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

AIS 320 Social Change in American Indian Societies
3 cr. Undergraduate.
American Indian societal change studied from a combination of theoretical perspectives: examination of the variation in American Indian responses to Western political and economic impacts.
Prerequisites: jr st; any Sociol 100-level course or Sociol 224(P).
Course Rules: AIS 320 & Sociology 320 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Fall 2011.
Current Offerings: http://uwm.edu/schedule

AIS 321 Contemporary Issues of the American Indian
3 cr. Undergraduate.
Development of the institutional structure of American Indian affairs; current economic and social problems, contemporary manifestations of American Indian spirit, e.g., activism and cultural experiences.
Prerequisites: jr st; any Sociol 100 level course or Sociol 224(P).
Course Rules: AIS 321 & Sociol 321 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

AIS 360 Ezhi-Kinomaageying: Anishinaabe Curriculum
3 cr. Undergraduate.
Hist of Anishinaabe language instruction, including impact of social and political movements and contemporay trends. Review and creation of effective instructional methods for teaching Anishinaabemowin.
Prerequisites: AIS 252(P) or cons instr.
Course Rules: Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Spring 2018, Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

AIS 362 System Failure: Globalization and Language Extinction
3 cr. Undergraduate/Graduate.
Role of globalization in the projected extinction of a large number of the world's languages within the next century.
Prerequisites: jr st; a course in social science; a course in linguistic anthro; or cons instr.
Course Rules: AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2014.
Current Offerings: http://uwm.edu/schedule

AIS 370 Anishinaabebiige: Archival to Contemporary Writing
3 cr. Undergraduate.
Introduction to researching, reading, and creating archival material for proficient speakers of Anishinaabemowin.
Prerequisites: AIS 252(P) or cons instr.
Course Rules: Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Current Offerings: http://uwm.edu/schedule

AIS 372 Survey of American Indian Literature
3 cr. Undergraduate.
A general, representative study of the literature of the American Indian.
Prerequisites: jr st; satisfaction of GER English Composition Competency req.
Course Rules: AIS 372 & English 372 are jointly offered; they count as repeats of one another.
General Education Requirements: HU, CD
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
AIS 473 History of Wisconsin Indians
3 cr. Undergraduate/Graduate.
History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.
**Prerequisites:** jr st; satisfaction of English Composition competency req.
**Course Rules:** AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.
**General Education Requirements:** CD
**Last Taught:** Fall 2017, Spring 2017, Spring 2015, Spring 2014.
**Current Offerings:** http://uwm.edu/schedule

AIS 474 Topics in North American Indian History:
3 cr. Undergraduate/Graduate.
Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.
**Course Rules:** Retakable w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.
**General Education Requirements:** CD
**Current Offerings:** http://uwm.edu/schedule

AIS 475 American Indian History, Law, and Government
3 cr. Undergraduate/Graduate.
American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.
**Course Rules:** No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another.
**General Education Requirements:** CD
**Last Taught:** Spring 2018, Fall 2016, Fall 2015, Fall 2014.
**Current Offerings:** http://uwm.edu/schedule

AIS 489 Internship in American Indian Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of American Indian Studies in a business, organizational, educational, political, or other appropriate setting.
**Prerequisites:** jr st; 2.25 gpa; cons supervising faculty member.
**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
**Last Taught:** Summer 2015, Spring 2015, Fall 2012.
**Current Offerings:** http://uwm.edu/schedule

AIS 496 UROP Apprenticeship, Upper Division
1-3 cr. Undergraduate.
Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff.
**Prerequisites:** jr st; acceptance to UROP; prior or conc reg in UROP seminar.
**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
**Current Offerings:** http://uwm.edu/schedule

AIS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
**Prerequisites:** jr st; acceptance for Study Abroad Prog.
**Course Rules:** Retakable w/chg in topic.
**Current Offerings:** http://uwm.edu/schedule

AIS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
**Prerequisites:** jr st; add’l prereqs may be assigned to specific topic.
**Course Rules:** Retakable w/chg in topic.
**Current Offerings:** http://uwm.edu/schedule

AIS 520 Studies in American Indian Literature:
3 cr. Undergraduate.
Critical study of themes, figures, aspects, trends, etc., in American Indian Literature.
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.
**Course Rules:** AIS 520 & English 520 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg of topic to 9 cr max.
**General Education Requirements:** CD
**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.
**Current Offerings:** http://uwm.edu/schedule

AIS 525 American Indian Literature, Culture, and Creative Arts
3 cr. Undergraduate/Graduate.
Critical methods in understanding indigenous literature, cultures, and creative arts; uses of arts in indigenous cultures; how arts influence people’s views of indigenous peoples.
**Prerequisites:** jr st; completion of GER English Composition competency req.
**Course Rules:** AIS 525 & English 525 are jointly offered; they count as repeats of one another.
**Current Offerings:** http://uwm.edu/schedule

AIS 600 Field Project - Capstone Research or Applied Project
3 cr. Undergraduate.
Research or applied project on area of student’s interest under supervision of AIS faculty member. Formal field project paper required.
**Prerequisites:** jr st; declared AIS major.
**Last Taught:** Spring 2017.
**Current Offerings:** http://uwm.edu/schedule

AIS 632 Seminar in American Indian Literature:
3 cr. Undergraduate/Graduate.
Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian.
**Prerequisites:** sr st; satisfaction of GER English Composition competency req; 9 cr English and/or CompLit at the 300-level or above; or grad st.
**Course Rules:** AIS 632 & English 632 are jointly offered; w/same topic they count as repeats of one another. Retakable w/chg in topic of 6 cr max.
**Last Taught:** Fall 2016, Spring 2015, Spring 2014, Fall 2012.
**Current Offerings:** http://uwm.edu/schedule
American Indian Studies, Undergraduate Certificate

The American Indian Studies program provides students with a thorough understanding of the Native American tribal nations in North America and their influence and impact in today's culture and society.

Our program embraces everyone interested in understanding the treaties, history, cultures, and politics that shaped the formation of North America and continue to have relevance today. While UWM does attract a number of students with Native American ancestry to the program, our classes are full of people from all types of backgrounds. They all share a common interest in understanding the past in order to impact the present. There are 565 tribal nations in the U.S., and 12 are located in the state of Wisconsin. UWM is a national driving force in this academic area because of our location; we have the most Native American faculty of any other UW school in Wisconsin.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The American Indian Studies Certificate is intended to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM and to students who previously have received a bachelor's degree from UWM or any other accredited college or university.

Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved American Indian Studies courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, nine must be taken at the 300 level or above. 12 of the 18 required credits must be in the College of Letters and Science, with at least 6 of these at the 300 level or above. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on the American Indian experience may be accepted with the approval of the Certificate Program Coordinator. If the core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the Certificate Program Coordinator to accept another course in its stead. Other courses not on this list but relevant to the study of American Indians may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 101</td>
<td>Introduction to American Indian Studies</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Select 15 credits from the list of approved courses</td>
<td>15</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

1 Students may petition the AIS Coordinator for approval of appropriate courses not on the approved list.

Approved Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 105</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Culture</td>
<td>3</td>
</tr>
<tr>
<td>AIS 106</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>
### Anishinaabe Language, Undergraduate Certificate

The Certificate in Anishinaabe Language (also known as Ojibwe) at UWM is an academic program that provides students with academic inquiry into Anishinaabe Language and culture.

The Anishinaabe language is spoken by the tribes of the Three Fires Confederacy: the Ojibwe, Odawa, and Potawatomi who share an origin story of migrating together to the western Great Lakes prior to European contact. The peoples of these three related tribes today live in Michigan, Minnesota, Ontario and Wisconsin on more than 80 U.S. or Canadian recognized reservations and offer job opportunities, particularly in education, for individuals who have proficiency in Anishinaabe language.

Anishinaabemowin is today considered an “endangered language” due to the historical implementation of federal policies on both sides of the border that attempted to promote English-only education in federal boarding schools. Children were punished for speaking their birth language. However, Anishinaabe is also one of the North American Indian languages that, due to the number of remaining speakers and intensive language programs in tribal communities is expected to survive through the 21st century.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

#### Eligibility

The program is open to all student’s seeking a bachelor’s degree from UWM, to students who previously earned a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in the subject. Students currently involved in baccalaureate studies at UWM who successfully complete the requirements of the certificate program will be awarded the certificate at the time of graduation. Other students will receive the certificate upon completion of the program requirements.

#### Requirements

To obtain the certificate, the student must complete 25 credits in approved courses as indicated below with a minimum grade point average of 2.500. Twelve of these credits must be earned in residence at UWM, including nine at the 300 level and above. Courses for the certificate may not be taken on a credit/no credit basis.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 151</td>
<td>First-Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 152</td>
<td>Second-Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Contact Information

Current Students contact Associate Professor Michael Wilson, michael@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/american-indian-studies/certificate/

### Required Language Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 151</td>
<td>First-Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 152</td>
<td>Second-Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
</tbody>
</table>

### American Indian Peoples of Wisconsin

American Indian Peoples of Wisconsin Seminar in American Indian Literature:
- Creative Arts
- American Indian Literature, Culture, and Government
- American Indian History, Law, and Government
- American Indian Literature, Culture, and Creative Arts
- Seminar in American Indian Literature: Anishinaabemowin
- Language Extinction
- Archival to System Failure
- Anishinaabepi: Archival to System Failure
- Anishinaabepi: Archival to System Failure
- Anishinaabepi: Archival to System Failure
- First-Semester Anishinaabemowin (Ojibwe)
- Second-Semester Anishinaabemowin (Ojibwe)
- Third-Semester Anishinaabemowin (Ojibwe)
- Fourth-Semester Anishinaabemowin (Ojibwe)
- North American Indian History to 1887
- North American Indian History Since 1887
- Introduction to American Indian Literature:
  - Ezhi-Kinomaageying: Anishinaabe Curriculum
  - Anishinaabebejig: Archival to Contemporary Writing
  - Survey of American Indian Literature
  - History of Wisconsin Indians
  - Topics in North American Indian History
  - American Indian History, Law, and Government
  - Studies in American Indian Literature
  - American Indian Literature, Culture, and Creative Arts
  - Anishinaabemowin
Committee Interdisciplinary Major, BA: American Indian Studies

The Committee Interdisciplinary Major with a focus in American Indian Studies provides students with a thorough understanding of the Native American tribal nations in North America and their influence and impact in today’s culture and society.

Our program embraces everyone interested in understanding the treaties, history, cultures, and politics that shaped the formation of North America and continue to have relevance today. While UWM does attract a number of students with Native American ancestry to the program, our classes are full of people from all types of backgrounds. They all share a common interest in understanding the past in order to impact the present. The curriculum develops the depth of students’ experience with the methodologies and sources used in the field of American Indian Studies. Although interdisciplinary, American Indian Studies encompasses a distinct body of knowledge. Students majoring in American Indian Studies can select from a wide variety of courses organized under three areas:

• Culture and Creative Expression
• History, Law, and Government
• Education and Community Policy Studies

There are 565 tribal nations in the US, and 12 are located in the state of Wisconsin. UWM is a national driving force in this academic area because of our location; we have the most Native American faculty of any other UW campus in Wisconsin.

Students in our program will receive lots of personalized attention and will find support and camaraderie in groups and events like our American Indian Student Services office and our annual Pow Wow. The personalized nature of our program is also reflected in the capstone research project, planning for which begins in junior year. Students will work with a faculty member to complete a capstone research project which focuses on that student’s particular niche interest in the field of American Indian Studies.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
</tbody>
</table>

Contact Information
Current Students contact Margaret Noodin, noodin@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 201</td>
<td>Statistical Literacy for College Students III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 202</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 208</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 215</td>
<td>Mathematical Explorations for Elementary Teachers II</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways: 1</td>
<td>0-18</td>
<td></td>
</tr>
</tbody>
</table>

Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)

Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU); Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td></td>
</tr>
</tbody>
</table>

Humanities

Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *

Social Sciences

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *

Natural Sciences

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.
VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

American Indian Studies Major Requirements

The Committee Interdisciplinary Major submajor in American Indian Studies requires completion of 33 credits in approved American Indian Studies and American Indian Studies-related courses. Of these 33 credits, 15 credits in advanced-level courses (numbered 300 and above) must be completed in residence at UWM. The College of Letters and Science requires that students earn at least a 2.500 GPA on all credits attempted for the major at UWM. In addition, a 2.500 GPA on all major credits, including any transfer work, is required.

The major curriculum is developed around a core of 15 credits that includes an introduction to the field, two focus courses, and six credits in research and practice. The focus courses are designed to ensure that students accomplish study in major areas related to the experience of American Indian tribal societies and communities. Beyond that, students are encouraged to shape their own programs to meet individual needs and interests through the required field/research capstone project and the selection of elective courses. The capstone research topic will be focused on a student’s particular interest area and will begin in the junior year. The project will be approved and supervised by a faculty member who will guide the student’s research, service project, or applied project through to formal evaluation by a committee of faculty members. A formal field project paper will be presented to the committee.

American Indian Studies

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *

Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 101</td>
<td>Introduction to American Indian Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 27 credits (see below) 27

Total Credits 33

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 600</td>
<td>Field Project - Capstone Research or Applied Project</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS 105</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Culture</td>
<td>3</td>
</tr>
<tr>
<td>AIS 106</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AIS 151</td>
<td>First-Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 152</td>
<td>Second-Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 203</td>
<td>Western Great Lakes American Indian Community Life of the Past</td>
<td>3</td>
</tr>
<tr>
<td>AIS 251</td>
<td>Third Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 252</td>
<td>Fourth Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 360</td>
<td>Ezhi-Kinomaageying: Anishinaabe Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>AIS 370</td>
<td>Anishinaabebejig: Archival to Contemporary Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Jointly Offered

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS/HIST 262</td>
<td>North American Indian History to 1887</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 263</td>
<td>North American Indian History Since 1887</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 276</td>
<td>Introduction to American Indian Literature</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 308</td>
<td>Archaeology of North America</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 310</td>
<td>Archaeology of Middle America</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 314</td>
<td>American Indian Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>AIS/SOCIOL 320</td>
<td>Social Change in American Indian Societies</td>
<td>3</td>
</tr>
<tr>
<td>AIS/SOCIOL 321</td>
<td>Contemporary Issues of the American Indian</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 372</td>
<td>Survey of American Indian Literature</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 473</td>
<td>History of Wisconsin Indians</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 474</td>
<td>Topics in North American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 475</td>
<td>American Indian History, Law, and Government</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 520</td>
<td>Studies in American Indian Literature</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 632</td>
<td>Seminar in American Indian Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Cross-Listed

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin</td>
<td>3</td>
</tr>
</tbody>
</table>
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Professor Michael Wilson, michael@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/american-indian-studies/undergraduate/
ANCIENT MEDITERRANEAN STUDIES, UNDERGRADUATE CERTIFICATE

As of Fall 2018, the Ancient Mediterranean Studies certificate program has suspended admission. This means that unless you have been accepted into this degree program prior to Fall 2018, you will not be able to earn the certificate. The following information is provided solely for the benefit of students accepted into the Ancient Mediterranean Studies certificate program prior to Fall 2018.

Requirements

While the program requires some study of the ancient languages, proficiency in Latin and Greek is not required for certification. Students, however, may obtain a certificate in Ancient Mediterranean Studies with Language Proficiency if they complete, as part of or in addition to the certificate requirements, 9 credits in Latin or Greek courses numbered 300 and above or pass a proficiency exam. Students also are encouraged to take advantage of the opportunities for study abroad, including fieldwork in archaeology, which may be used to fulfill certificate requirements. Students must achieve a grade point average of 3.000 or higher in the courses that satisfy the Program requirements, and all such courses must be graded rather than taken on a credit/no credit basis. Of the 24 required credits, at least 9 credits must be taken at the advanced level (numbered 300 and above) in residence at UWM. At least 12 credits must be taken in courses in the College of Letters and Science, with at least 6 of these at the advanced level.

Students enrolled in the Certificate in Ancient Mediterranean Studies (CAMS) Program must complete a minimum of 24 credits, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
<td>6</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td></td>
</tr>
<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
<td></td>
</tr>
<tr>
<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
<td></td>
</tr>
<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
<td></td>
</tr>
<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td></td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought: (with approval from the coordinator)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Topics in European History: (with approval from the coordinator)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 credits in Art History, chosen from ArtHist 101 and/or 300-level or above ArtHist courses from the approved list.

Select two semesters at any level in one of the following languages:
- Latin
- Greek

Guidelines for Substitutions

Generally, substitutions for core requirements will not be allowed except in cases when an equivalent course has been taken at another university. In such cases, the student must petition the CAMS advisory committee and provide the following documentation: a formal statement of justification, a syllabus, and a transcript.

Approved Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 103</td>
<td>Digging Up the Past: Approaches to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 305</td>
<td>The Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 306</td>
<td>European Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 307</td>
<td>World Archaeology: Foundations of Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 220</td>
<td>Introduction to Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 312</td>
<td>Minoan and Mycenaean Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 313</td>
<td>Greek Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 314</td>
<td>Art and Archaeology of the Ancient Near East</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 315</td>
<td>Art and Archaeology of Ancient Egypt</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 316</td>
<td>Roman Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 324</td>
<td>Early Christian and Byzantine Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 327</td>
<td>Caliphs, Emirs, &amp; Kings: Art &amp; Architecture of Medieval Spain</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 412</td>
<td>Cities and Sanctuaries of Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 413</td>
<td>Greek Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>CELTIC 350</td>
<td>Advanced Topics in Celtic Studies: (The Archaeology of Ireland or The Archaeology of Britain)</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 101</td>
<td>Latin and Greek in English Words</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 170</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 171</td>
<td>Classical Mythology: An Audio-Visual Supplement</td>
<td>1</td>
</tr>
<tr>
<td>CLASSIC 192</td>
<td>First-Year Seminar: (Ancient Greek and Roman Love Poetry)</td>
<td>3</td>
</tr>
</tbody>
</table>

1 In addition to the core requirements, students also must complete 6 credits from the list of approved courses (usually found in Anthropology, Art History, Classics, Hebrew Studies, History, and Philosophy), at least 3 of which must be in an approved CAMS course at the 300 level or above or in any Latin or Greek course not used to fulfill the language requirement. Other courses may count toward the certificate at the discretion of the Program's Advisory Committee. Students may petition to include courses with appropriate content that do not appear on the list.

Biblical Hebrew

Select 6 credits from the list of approved courses

Total Credits: 30-32
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASSIC 201</td>
<td>Introduction to Greek Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 202</td>
<td>Introduction to Roman Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 274</td>
<td>Ancient Egyptian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 297</td>
<td>Study Abroad: (Cultural Diversity of Ancient Campania)</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 299</td>
<td>Ad Hoc: (Egyptian Hieroglyphics or Jason and Medea)</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 301</td>
<td>The Life and Literature of Classical Athens: Herodotus and Dramatists</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 302</td>
<td>War and Politics in Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 303</td>
<td>The Life and Literature of the Roman Empire</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 304</td>
<td>The Graeco-Roman World:</td>
<td></td>
</tr>
<tr>
<td>CLASSIC 351</td>
<td>Ancient Greek Religion</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 370</td>
<td>Hittite Myth and History</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 390</td>
<td>Egyptian Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 497</td>
<td>Study Abroad: (Cultural Diversity of Ancient Campania)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s:</td>
<td>3</td>
</tr>
<tr>
<td>GREEK 103</td>
<td>First Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 104</td>
<td>Second Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>GREEK 205</td>
<td>Third Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 306</td>
<td>Readings in Ancient Greek Literature:</td>
<td>3</td>
</tr>
<tr>
<td>GREEK 501</td>
<td>Readings in Classical Greek Prose:</td>
<td>3</td>
</tr>
<tr>
<td>GREEK 502</td>
<td>Readings in Ancient Greek Poetry:</td>
<td>3</td>
</tr>
<tr>
<td>GREEK 699</td>
<td>Directed Reading</td>
<td>1-3</td>
</tr>
<tr>
<td>HEBR ST 231</td>
<td>Introduction to the Old Testament/ Hebrew Bible</td>
<td>3</td>
</tr>
<tr>
<td>HEBR ST 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
<td>3</td>
</tr>
<tr>
<td>HEBR ST 238</td>
<td>Topics in Hebrew/Jewish Literature, Art, and Culture: (Searching for the Historical Jesus)</td>
<td>3</td>
</tr>
<tr>
<td>HEBR ST 331</td>
<td>Topics in Biblical Literature: (Prophets and Prophecy in the Hebrew Bible)</td>
<td>3</td>
</tr>
<tr>
<td>HEBR ST 332</td>
<td>Women in the Bible</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 203</td>
<td>The History of Medieval Europe: The Early Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 274</td>
<td>Ancient Egyptian Civilization</td>
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<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
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<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
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<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
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<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
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<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td>3</td>
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<td>HIST 370</td>
<td>Topics in the History of Religious Thought: (Judaism in the Ancient World, Paganism in the Ancient World, or Early Christianity)</td>
<td>3</td>
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<tr>
<td>HIST 371</td>
<td>Topics in European History: (Rome in the Age of Constantine – Society and Culture)</td>
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<td>HIST 374</td>
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<td>HIST 398</td>
<td>Honors Seminar: (Medicine and Healing in Ancient Greece and Rome or Pagans and Christians in the Roman Empire)</td>
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<td>HIST 377</td>
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<td>LATIN 103</td>
<td>First Semester Latin</td>
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<td>LATIN 104</td>
<td>Second Semester Latin</td>
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<td>LATIN 150</td>
<td>Intensive Latin</td>
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<td>LATIN 199</td>
<td>Independent Study</td>
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<td>LATIN 205</td>
<td>Third Semester Latin</td>
<td>4</td>
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<td>LATIN 306</td>
<td>Readings in Latin Literature:</td>
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<td>LATIN 501</td>
<td>Readings in Latin Prose</td>
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<td>LATIN 502</td>
<td>Readings in Latin Poetry</td>
<td>3</td>
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<td>LATIN 508</td>
<td>Latin Prose Composition</td>
<td>3</td>
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<td>LATIN 699</td>
<td>Directed Reading</td>
<td>3</td>
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<td>LINGUIS 211</td>
<td>Origins of Words</td>
<td>3</td>
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<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
<td>3</td>
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<td>PHILOS 551</td>
<td>Aristotle</td>
<td>3</td>
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<tr>
<td>PHILOS 681</td>
<td>Seminar in Advanced Topics: (Aristotle's Natural Philosophy)</td>
<td>3</td>
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<td>Contact Information</td>
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</tbody>
</table>

Current Students contact Associate Professor Elisabetta Cova, covae@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Ancient+Mediterranean+Studies
ANTHROPOLOGY

Anthropology is the study of human beings and their cultures, past and present, throughout the world. The discipline examines and compares the world’s culture patterns in all their variety and studies humans as biological organisms. Through archaeology, it attempts to shed light on the long history and evolution of humans and their ways of life. In these pursuits, anthropologists favor comparative and evolutionary perspectives. As a result, anthropological studies are wide-ranging with respect to topic and far-reaching with respect to both space and time.

Programs

- Anthropology, BA (p. 1023)
- Anthropology, Minor (p. 1027)
- Anthropology, MS (p. 1028)
- Anthropology, MS/Library and Information Science, MLIS (p. 1030)
- Anthropology, PhD (p. 1031)
- Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 1032)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 1033)
- Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 1034)
- Museum Studies, Graduate Certificate (p. 1035)

Anthropology Courses

ANTHRO 101 Introduction to Anthropology: Human Origins
3 cr. Undergraduate.
Principles of evolution, Mendelian genetics, human adaptability, and concept of race; natural history of primates; human evolution; archaeological evidence for the evolution of culture.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ANTHRO 102 Introduction to Anthropology: Culture and Society
3 cr. Undergraduate.
Science of human behavior in different cultural contexts; human biological and cultural variability; human societies of the present and recent past; dynamics of culture change.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ANTHRO 103 Digging Up the Past: Approaches to Archaeology
3 cr. Undergraduate.
Why and how extinct cultures are studied. Current archaeological approaches, reconstructing past environments, ethnographic analogy, experimental archaeology.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ANTHRO 104 Lifeways in Different Cultures: A Survey of World Societies
3 cr. Undergraduate.
Variety and diversity of human cultural adaptations. Specific peoples and cultures are discussed with respect to their similarities and uniquenesses.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ANTHRO 105 Introduction to Linguistic Anthropology
3 cr. Undergraduate.
Methods, techniques, and models of analysis of linguistic anthropology and their applications to the other subfields of anthropology.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ANTHRO 106 Food and Culture
3 cr. Undergraduate.
Social and cultural implications of food; nutritional and dietetic concerns of secondary interest. 2 hrs lec, 1 hr dis.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2017, Summer 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ANTHRO 107 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule
ANTHRO 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ANTHRO 203 Religions of Hunting-Gathering and Horticultural Societies
3 cr. Undergraduate.
A survey of the religious beliefs and practices of hunting-gathering and horticultural societies and their relationships to other aspects of culture.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ANTHRO 212 The Past on Tap: The Archaeology of Fermented Beverages
3 cr. Undergraduate.
Introduction to the production, distribution and consumption of fermented beverages in the ancient world with a particular emphasis on archaeological evidence.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ANTHRO 213 American Indian Peoples of Wisconsin
3 cr. Undergraduate.
Past and contemporary societies and cultures of American Indians of Wisconsin, including the Chippewa (Ojibwa), Menominee, Winnebago, Oneida, Potawatomi, Stockbridge-Munsee.
Prerequisites: none.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

ANTHRO 214 Ancient Civilizations of Latin America
3 cr. Undergraduate.
A comparative archaeological overview of various civilizations that flourished in Latin America prior to the arrival of Spanish conquistadors in the early 16th century.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ANTHRO 225 The Aztec Empire
3 cr. Undergraduate.
Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives.
Prerequisites: none.
Course Rules: AIS 225 & Anthro 225 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ANTHRO 229 Madness and Culture
3 cr. Undergraduate.
Madness of some kind as a recognized universal in human experience; variation in how madness is expressed, classified, and treated over time and across cultures.
Prerequisites: none.
Last Taught: Spring 2013.
Current Offerings: http://uwm.edu/schedule

ANTHRO 250 Women's Roles in Cross-Cultural Perspective
3 cr. Undergraduate.
Investigation of cross-cultural similarities and differences in women's roles; insights into the nature of women's roles in North American society.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ANTHRO 281 Dead Men Do Tell Tales: An Introduction to Forensic Science
3 cr. Undergraduate.
A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.
Prerequisites: none.
Course Rules: Jointly offered with & counts as repeat of Chem/BMS(C L Sci)/Crm Jst 281.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ANTHRO 285 Medicolegal Death Investigation
3 cr. Undergraduate.
Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ANTHRO 289 Internship in Anthropology, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of anthropology in a business, organizational, educational, political, or other appropriate settings.
Prerequisites: Anthro 101(P), 102(P), 103(P) or 360(P); 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ANTHRO 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: http://uwm.edu/schedule

ANTHRO 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
ANTHRO 298 Study Abroad: Brazil
3 cr. Undergraduate.
Three weeks in Brazil participating in seminars, visiting urban businesses, religious centers, squatter settlements, etc., and traveling to rural cattle ranches, sugar cane plantations etc.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ANTHRO 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ANTHRO 301 Human Evolution and Variation
3 cr. Undergraduate.
Theory, mechanisms, and processes of biological evolution applied to problems of the primate and human fossil record and contemporary human populations. 2 hrs lec, 2 hrs lab.
Prerequisites: soph st; Anthro 101(P), Bio Sci 100(P), 102(P), or 150(P), or cons instr.
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ANTHRO 302 Anthropology and Popular Culture
3 cr. Undergraduate/Graduate.
Aspects of popular culture including music, information technology, tourism, and film, video, and museum-spectacles in light of anthropological theory.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ANTHRO 304 Violence and Warfare in Prehistory
3 cr. Undergraduate/Graduate.
Archaeological evidence for the origin and maintenance of violence and warfare in prehistory. How archaeological inquiry is affected by current politics, ethics, and morality.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Fall 2016, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ANTHRO 305 The Celtic World
3 cr. Undergraduate/Graduate.
Archaeology, folklore and literature of the Celtic peoples in the British Isles and on the continent, explored and analyzed from an anthropological and historical perspective.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2014, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ANTHRO 306 European Archaeology
3 cr. Undergraduate/Graduate.
Old World cultural development focusing on prehistoric Europe from the Paleolithic to the Roman period; European developments compared to other parts of the Old World.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ANTHRO 307 World Archaeology: Foundations of Civilization
3 cr. Undergraduate/Graduate.
Cultural developments in selected areas of Old and New Worlds; emphasis on origins of plant and animal domestication, sedentary life, and transition to urban civilization.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ANTHRO 308 Archaeology of North America
3 cr. Undergraduate/Graduate.
Main pre-Columbian cultures on the North American continent, north of Mexico.
Prerequisites: jr st; Anthro 103 (P) or cons instr.
Course Rules: AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2014, Fall 2011, Fall 2008, Fall 2005.
Current Offerings: http://uwm.edu/schedule

ANTHRO 309 Archaeology of Central and South America
3 cr. Undergraduate/Graduate.
Main pre-Columbian cultures and civilizations of Central and South America, including the Caribbean.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Fall 2016, Fall 2013, Spring 2012, Spring 2009.
Current Offerings: http://uwm.edu/schedule

ANTHRO 310 Archaeology of Middle America
3 cr. Undergraduate/Graduate.
Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2015, Spring 2011, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ANTHRO 311 The World of the Ancient Maya
3 cr. Undergraduate/Graduate.
Historical development of ancient Maya civilization from its origins to the Spanish Conquest.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule
ANTHRO 313 Archaeology of the American Southwest
3 cr. Undergraduate/Graduate.
Pre-Hispanic cultures of the southwestern United States and
northwestern Mexico.
Prerequisites:
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

ANTHRO 314 American Indian Societies and Cultures
3 cr. Undergraduate/Graduate.
Description and analysis of selected indigenous American cultures
including subsistence, sociopolitical organizations, beliefs and Euro-
American Indian policy.
Prerequisites: jr st; Anthro 102(R).
Course Rules: AIS 314 & Anthro 314 are jointly offered; they count as
repeats of one another.
Last Taught: Spring 2018, Spring 2015, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ANTHRO 320 Peoples and Cultures of Africa
3 cr. Undergraduate/Graduate.
Description and analysis of the cultures of Africa, especially south of the
Sahara.
Prerequisites: Preq: jr st; Anthro 102(R); grade of C or better in English
102(P) or score 637 or higher on EPT.
Current Offerings: http://uwm.edu/schedule

ANTHRO 322 Europe in Anthropological Perspective
3 cr. Undergraduate/Graduate.
Key topics in the anthropology of Europe, including nationalism and
ritual, gender and politics, borders and immigration, and bureaucracy and
citizenship.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2010.
Current Offerings: http://uwm.edu/schedule

ANTHRO 325 Japanese Culture and Society
3 cr. Undergraduate/Graduate.
Japanese culture and society, including marriage and the family, work
life, education, rural and urban social organization, gender, ritual and life
cycle.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2015, Spring 2014, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ANTHRO 326 Peoples and Cultures of South Asia
3 cr. Undergraduate/Graduate.
The subcontinent south of the Himalayas, including India, Nepal,
Pakistan, Bangladesh, and Sri Lanka.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Spring 2016, Fall 2013, Spring 2011, Spring 2009.
Current Offerings: http://uwm.edu/schedule

ANTHRO 328 Comparative Studies of Music, Race, and Gender in
Nationalism
3 cr. Undergraduate/Graduate.
A comparative study of the processes of nation-formation and of
the roles played by race, gender, and music in constructing national
identities.
Prerequisites: jr st; Anthro 102(R); grade of C or better in English 102(P)
or score 637 or higher on EPT.
Last Taught: Fall 2010, Fall 2009, Fall 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

ANTHRO 335 American Indians of the Southeast
3 cr. Undergraduate/Graduate.
Description and analysis of Southeastern Indian cultures, including
subsistence, sociopolitical organizations, beliefs, and Euro-American
relations.
Prerequisites: jr st; Anthro 102(R) & 314(R).
Current Offerings: http://uwm.edu/schedule

ANTHRO 340 Cultures of Online Games and Virtual Worlds
3 cr. Undergraduate/Graduate.
Anthropological understandings of online games and virtual worlds
including: conceptual foundations, current topics, methodological issues,
and first-hand experience.
Prerequisites: jr st.
Last Taught: UWinteriM 2018, UWinteriM 2017, Summer 2016, Summer
2015.
Current Offerings: http://uwm.edu/schedule

ANTHRO 349 Seminar in Ethnography and Cultural Processes
3 cr. Undergraduate/Graduate.
How sociocultural processes are confronted and represented through the
genre of ethnography; new monographs used to chart innovations in the
form.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ANTHRO 351 Anthropological Theories of Religion
3 cr. Undergraduate.
Anthropological theories of religion covering magic and witchcraft,
oral moral, sacred and profane, alienation, capitalism, neurosis, ritual,
fetishism, fundamentalism, conversion, sacrifice, and healing.
Prerequisites: jr st.
Course Rules: Anthro 351 & ReligSt 351 are jointly offered; they count as
repeats of one another.
Current Offerings: http://uwm.edu/schedule

ANTHRO 354 Anthropology, Aesthetics, and Art
3 cr. Undergraduate/Graduate.
Arts and aesthetics in anthropological perspective; their relation to other
aspects of culture, prehistoric and contemporary art, and material culture.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Spring 2018, Fall 2015, Fall 2007, Fall 2006.
Current Offerings: http://uwm.edu/schedule
ANTHRO 355 Globalization, Culture, and Environment
3 cr. Undergraduate.
Anthropological approaches to examining the concept of environmental justice as a crucial component of global security.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: SS
Last Taught: Fall 2016, Fall 2012, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ANTHRO 361 Applications in Linguistic Anthropology
3 cr. Undergraduate/Graduate.
Advanced work in linguistic anthropology designed to give students applied skills in cross-linguistic studies.
Prerequisites: jr st; Anthro 105(360)(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ANTHRO 362 System Failure: Globalization and Language Extinction
3 cr. Undergraduate/Graduate.
Role of globalization in the projected extinction of a large number of the world's languages within the next century.
Prerequisites: jr st; a course in social science; a course in linguistic anthropo; or cons instr.
Course Rules: AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2014, Spring 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ANTHRO 380 Anthropological Applications of GIS
3 cr. Undergraduate/Graduate.
Use of GIS in archaeology, cultural anthropology, and physical anthropology.
Prerequisites: jr st; a course in anthro.
Current Offerings: http://uwm.edu/schedule

ANTHRO 381 Honors Seminar
3 cr. Undergraduate.
Selected topics in cultural anthropology, ethnography, prehistory, and human evolution.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Last Taught: Spring 2018, Spring 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ANTHRO 400 Human Sociobiology
3 cr. Undergraduate/Graduate.
Application of the principles of evolutionary theory and behavioral ecology to the social and cultural life of humans and other primates.
Prerequisites: jr st; Anthro 101(R) or 102(R).
Last Taught: Fall 2016, Fall 2014, Spring 2011, Fall 2007.
Current Offerings: http://uwm.edu/schedule

ANTHRO 401 Primate Populations
3 cr. Undergraduate/Graduate.
Ecological behavioral genetic and multidisciplinary field studies of nonhuman primates.
Prerequisites: jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score of 637 or higher on EPT.
Current Offerings: http://uwm.edu/schedule

ANTHRO 402 Primate Evolution
3 cr. Undergraduate/Graduate.
Evolution, adaptation, and distribution of living primates, including humans, comparative primate adaptations and skeletal anatomy.
Evolutionary theory and its application to the primate fossil record.
Prerequisites: jr st; Anthro 301(P) or cons instr.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

ANTHRO 403 The Human Skeleton
3 cr. Undergraduate/Graduate.
Morphological and functional examination of the skeletal system. Microscopic and biomedical considerations of bone and cartilage, age, sex, and regional differences among modern human populations. Combined lec/lab.
Prerequisites: jr st; Anthro 301(P) or cons instr.
General Education Requirements: NS
Last Taught: Fall 2017, Fall 2016, Fall 2015, UWinteriM 2015.
Current Offerings: http://uwm.edu/schedule

ANTHRO 404 Seminar in Human Evolutionary Physiology
3 cr. Undergraduate/Graduate.
Evolutionary principles influencing human populations. Variation within and between human groups.
Prerequisites: jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score level 4 on EPT.
Current Offerings: http://uwm.edu/schedule

ANTHRO 405 Forensic Anthropology
3 cr. Undergraduate/Graduate.
Techniques in the forensic analysis of human skeletal material. Introduction to death investigation and forensic pathology.
Prerequisites: jr st; Anthro 403(P).
Current Offerings: http://uwm.edu/schedule

ANTHRO 406 Evolutionary Biology & Human Diseases
3 cr. Undergraduate/Graduate.
Evolutionary principles applied to our understanding of infectious and chronic diseases common to human populations, both past and present.
Prerequisites: jr st; Anthro 301(R), Bio Sci 100(R) or 150(R).
Last Taught: Fall 2014, Spring 2013, Fall 2010, Spring 2009.
Current Offerings: http://uwm.edu/schedule

ANTHRO 407 Neuroanthropology
3 cr. Undergraduate/Graduate.
Anthropological theories of human brain evolution, and its role in complex human cultural traits, including sociality, language, tool manufacture, cognition, and emotion.
Prerequisites: jr st; Anthro 101(P) or Bio Sci 150(P).
Course Rules: Counts as repeat of Anthro 641 with same topic.
Last Taught: Fall 2016, Fall 2015, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule
ANTHRO 408 Hormones and Behavior
3 cr. Undergraduate/Graduate.
Roles of hormones in evolution and expression of animal behaviors, particularly aggression, stress, mating, parenting, and cognition; emphasis on humans.
Prerequisites: jr st; intro course in physical anthro, bio sci, or psych.
Course Rules: Counts as repeat of Anthro 641 w/same topic.
Current Offerings: http://uwm.edu/schedule

ANTHRO 409 Evolution, Religion, and Human Biology
3 cr. Undergraduate/Graduate.
Nature and evolutionary origins of human religion as well as empirical evidence for the effects of religion on human health.
Prerequisites: jr st; Anthro 101(P) or an intro bio sci course.
Current Offerings: http://uwm.edu/schedule

ANTHRO 420 Power and Ideology in Archaeology
3 cr. Undergraduate/Graduate.
Nature of and relationship between power and ideology in past societies; theoretical perspectives and methods used by archaeologists to study power and ideology.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: Counts as a repeat of Anthro 641 w/similar title.
Last Taught: Fall 2015, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ANTHRO 421 Cities in the Ancient World
3 cr. Undergraduate/Graduate.
Cross-cultural comparison of the world's first cities; the emergence of cities and their role in the development of ancient civilizations.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Spring 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

ANTHRO 424 Ethnoarchaeology
3 cr. Undergraduate/Graduate.
Combination of ethnographic methods with archaeological research questions to achieve a better understanding of material culture.
Prerequisites: jr st; Anthro 102(P) or 103(P) or cons instr.
Course Rules: Counts as a repeat of Anthro 641 w/same topic.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

ANTHRO 425 Hunter-Gatherer Lifeways: Past and Present
3 cr. Undergraduate/Graduate.
Cross-cultural comparisons of hunter-gatherer societies, including archaeological, ethnohistorical, and ethnographic approaches.
Prerequisites: jr st; Anthro 102(P) or 103(P) or cons instr.
Last Taught: Spring 2016, Fall 2011, Spring 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ANTHRO 426 Who Owns the Past?
3 cr. Undergraduate/Graduate.
Social/political ramifications of the study, interpretation, presentation, conservation of the archaeological past; institutions/stakeholders involved in those processes: museums, scholars, ethnic groups, the public.
Prerequisites: jr st; Anthro 102(P) or 103(P) or cons instr.
Course Rules: Counts as a repeat of Anthro 641 w/same topic.
Last Taught: Fall 2016, Spring 2015, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ANTHRO 431 Cities and Culture
3 cr. Undergraduate/Graduate.
Cross-cultural analysis; relation of urban space to community, capitalism, migration, class, globalization, social and artistic movements; methods for ethnographic study.
Prerequisites: jr st; Anthro 102(R).
Current Offerings: http://uwm.edu/schedule

ANTHRO 439 Culture and Global Health
3 cr. Undergraduate/Graduate.
Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease.
Prerequisites: jr st.
Course Rules: Anthro 439 & Global 439 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ANTHRO 440 Medical Anthropology
3 cr. Undergraduate/Graduate.
Comparative study of medical systems; cultural meaning of illness and the healing process; social origins of disease.
Prerequisites: jr st; Anthro 102(P); grade of C or better in English 102(P) or score of 637 or higher on EPT.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ANTHRO 441 Nature, Knowledge, and Technoscience in Anthropological Perspective
3 cr. Undergraduate/Graduate.
Anthropological approaches to contemporary issues of science in society; critical perspectives on knowledge construction with respect to culture and indigenous traditions, race, class and gender.
Prerequisites: jr st.
Last Taught: Fall 2014, Fall 2012, Fall 2011, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ANTHRO 442 Humanitarianism in Global Perspective
3 cr. Undergraduate/Graduate.
Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking.
Prerequisites: jr st; a social science course (P).
Course Rules: Anthro 442 & Global 442 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Spring 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ANTHRO 443 Medicine and Pharmaceuticals in the Global Age
3 cr. Undergraduate/Graduate.
The practices of medicine and the distribution of pharmaceuticals globally.
Prerequisites: jr st; Anthro 440(R).
Course Rules: Anthro 443 & Global 443 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule
**ANTHRO 445 Psychological Anthropology**
3 cr. Undergraduate/Graduate.
The relationship between individual and society; cultural influences on cognition, personality, identity, and emotion; and the comparative study of mental disorder.
**Prerequisites:** jr st; Anthro 102(R).
**Last Taught:** Fall 2013, Fall 2011, Fall 2004, Spring 2004.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 446 The Child in Different Cultures**
3 cr. Undergraduate/Graduate.
Relationship of child development to particular cultural milieus; methods of child training in different cultures and their effects on the development of adult personality.
**Prerequisites:** jr st; Anthro 102(R) or Psych 101(R) or Sociol 101(R).
**General Education Requirements:** SS
**Last Taught:** Spring 2018, Spring 2010, Spring 2008, Spring 2006.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 447 The Global Politics of Human Rights**
3 cr. Undergraduate/Graduate.
Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.
**Prerequisites:** jr st; Anthro 102(R).
**Course Rules:** Anthro 447 & Global 447 are jointly offered; they count as repeats of one another.
**Last Taught:** Fall 2017, Fall 2014, Spring 2012, Fall 2007.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 448 Cultural and Human Ecology**
3 cr. Undergraduate/Graduate.
Relationships of human societies to natural environments; energy systems involved in processes of human adaptation; ways in which culture and society operate as dynamic components of that exchange.
**Prerequisites:** jr st; Anthro 102(R).
**Last Taught:** Fall 2017, Spring 2014, Spring 2012, Spring 2010.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 449 The Human Economy**
3 cr. Undergraduate/Graduate.
Uses and allocation of resources; modes of production and distribution and their relationship to kinship, politics, and other aspects of culture.
**Prerequisites:** jr st.
**Last Taught:** Fall 2016, Fall 2013, Spring 2010, Fall 2006.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 450 Political Anthropology**
3 cr. Undergraduate/Graduate.
Political organization: forms of authority, responsibility, accountability, and power in societies at different levels of social complexity and in different ecological contexts.
**Prerequisites:** jr st; Anthro 102(R).
**Last Taught:** Spring 2017, Fall 2014, Fall 2013, Fall 2010.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 460 Anthropological Theory**
3 cr. Undergraduate/Graduate.
Critical examination of the development and current status of the major paradigms and theories employed in anthropological studies.
**Prerequisites:** sr st; Anthro 102(R).
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 465 Historic Preservation in Archaeology**
3 cr. Undergraduate/Graduate.
Historic preservation and cultural resource management in American archaeology; the legislative base, federal and state programs, the national register, regional planning, and research orientations.
**Prerequisites:** jr st.
**Last Taught:** Fall 2014, Spring 2012, Spring 2009, Spring 2005.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 466 Historical Archaeology**
3 cr. Undergraduate/Graduate.
Development of the historical archaeology discipline; issues of method and theory; use of documentary, oral, and material culture evidence to interpret the recent past. Counts as repeat of Anthro 641 with same topic. 
**Prereq:** jr st; Anthro 103 (P) or cons instr.
**Prerequisites:**
**Last Taught:** Fall 2017, Fall 2015, Spring 2011.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 467 Archaeological Curation: A Practicum in the Care of Research Collections**
3 cr. Undergraduate/Graduate.
Practicum in archaeological curation focusing on conservation and preservation, pest management, storage, collection accessibility, accountability, curation policies, federal regulations, and ethics.
**Prerequisites:** jr st; Anthro 103(P) or cons instr; or grad st.
**Course Rules:** Counts as repeat of Anthro 641 w/similar topic.
**Last Taught:** Spring 2017.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ANTHRO 468 General Anthropology**
3 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
**Prerequisites:** jr st; acceptance for Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Summer 2017, Spring 2017, Summer 2016, Spring 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
ANTHRO 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ANTHRO 501 Archaeology of Death
3 cr. Undergraduate/Graduate.
Archaeological study of mortuary behavior and osteology to understand
-cultural variability in social organization, disease, nutrition, and violence.
Prerequisites: jr st; Anthro 103(P) or cons instr; grade of C or better in
English 102(P) or score 637 or higher on EPT.
Last Taught: Fall 2015, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ANTHRO 502 Lithic Analysis: Stone Tools and Human Behavior
3 cr. Undergraduate/Graduate.
Stone tool production use, and archaeological analysis; experimental
knapping, heat treatment, and other exercises. No cr for student w/cr in
Anthro 641 w/similar topic.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

ANTHRO 525 Zooarchaeology: Analysis of Faunal Remains
3 cr. Undergraduate/Graduate.
Theory and method, including practical labs, in the analysis of animal
remains from archaeological contexts.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ANTHRO 535 Analysis of Archaeological Ceramics
3 cr. Undergraduate/Graduate.
Archaeological approaches to ceramic analysis including theory and
methods; ethnoarchaeological, experimental, compositional, and stylistic
approaches; practical skills including sorting, typing, and reporting
ceramic assemblages.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: Counts as repeat of Anthro 641 with similar topic.
Last Taught: Fall 2017, Spring 2016, Fall 2013, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ANTHRO 540 Applications of Anthropology
3 cr. Undergraduate/Graduate.
Uses of anthropological concepts, methods, and findings in human
problems resulting from culture change.
Prerequisites: jr st; Anthro 102(R).
Last Taught: UWinterIM 2012, UWinterIM 2011, UWinterIM 2010,
UWinterIM 2009.
Current Offerings: http://uwm.edu/schedule

ANTHRO 543 Cross-Cultural Study of Religion
3 cr. Undergraduate/Graduate.
Various approaches to the study of religion; religions of selected non-
Western societies.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2015, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ANTHRO 544 Religious Giving in Anthropological Perspective
3 cr. Undergraduate.
Seminar on religious directives for giving in historical and cross-cultural
perspective, including Christian, Hindu, Buddhist, Muslim, and Jewish
ideas of charity, philanthropy, and social welfare.
Prerequisites: jr st.
Course Rules: Anthro 544 & ReligSt 544 are jointly offered; they count as
repeats of one another.
Current Offerings: http://uwm.edu/schedule

ANTHRO 560 Introduction to Research Methods in Anthropology
3 cr. Undergraduate/Graduate.
Problem and research design formulation. How to ask and answer
scientific questions using methods and techniques common to all fields
of anthropology.
Prerequisites: jr st; Anthro 102(R).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ANTHRO 561 Techniques and Problems in Ethnography
3 cr. Undergraduate/Graduate.
Methods of fieldwork for cultural anthropologists; design of field studies;
techniques for collection and analysis of field data; field projects.
Prerequisites: jr st; Anthro 102(R).
Current Offerings: http://uwm.edu/schedule

ANTHRO 562 Techniques and Problems in Archaeology
3 cr. Undergraduate/Graduate.
Methods of fieldwork in archaeology; strategies of archaeological
investigations; introduction to archaeological site mapping Lec, lab.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ANTHRO 565 Seminar in Regional Archaeology:
3 cr. Undergraduate/Graduate.
Seminar in archaeology of specific geographic areas. Consult Schedule of
Classes for specific semester's content.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2015, Fall 2012, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ANTHRO 566 Archaeological Analysis and Report Preparation:
3-6 cr. Undergraduate/Graduate.
Students will organize, describe, analyze, and interpret actual
archaeological materials. Each student will assist in writing an
archaeological report. Fee assessed according to nature and location of
field trips.
Prerequisites: jr st; Anthro 103(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule
ANTHRO 567 Archaeological Field School  
3-6 cr. Undergraduate/Graduate.  
Archaeological methods and techniques under field conditions, at one or more sites. Field work five days a week, evening lectures. Fee assessed according to nature and location of field school.  
Prerequisites: jr st; cons instr.  
Course Rules: May be retaken to 9 cr max.  
Current Offerings: [link to schedule]  
ANTHRO 568 Introduction to Anthropological Statistics  
3 cr. Undergraduate/Graduate.  
Statistical models and their basic assumptions; statistical inference in biological and cultural anthropology; probability theory; nonparametric and parametric methods.  
Prerequisites: jr st; Anthro 101(P) or 102(P) or 103(P) or cons instr.  
Course Rules: Anthro 570 & Linguist 570 are jointly offered; they count as repeats of one another.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: [link to schedule]  
ANTHRO 570 Issues in Bilingualism  
3 cr. Undergraduate/Graduate.  
Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints.  
Prerequisites: jr st.  
Course Rules: Anthro 570 & Linguist 570 are jointly offered; they count as repeats of one another.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: [link to schedule]  
ANTHRO 585 Internship in Forensic Toxicology  
1-3 cr. Undergraduate.  
Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.  
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.  
Course Rules: Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.  
Last Taught: Fall 2014, Spring 2012.  
Current Offerings: [link to schedule]  
ANTHRO 594 Internship in Forensic Science  
1-3 cr. Undergraduate.  
On-site shadowing of evidence analyst at State Crime Laboratory.  
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.  
Course Rules: Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another.  
Last Taught: Fall 2014, Spring 2012.  
Current Offerings: [link to schedule]  
ANTHRO 636 Geochronology  
3 cr. Undergraduate/Graduate.  
Theory and application of radiometric and other numerical dating methods in geology, archaeology, and paleoanthropology.  
Prerequisites: jr st, Anthro 101(P) or 102(P) or 103(P); or grad st.  
Course Rules: Anthro 636 & Geo Sci 636 are jointly offered; they count as repeats of one another.  
Current Offerings: [link to schedule]  
ANTHRO 641 Seminar in Anthropology  
3 cr. Undergraduate/Graduate.  
A research seminar in any of the several recognized areas of anthropology.  
Prerequisites: jr st, Anthro 101(P) or 102(P) or 103(P); or grad st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2014.  
Current Offerings: [link to schedule]  
ANTHRO 649 Ethnography of Institutions  
3 cr. Undergraduate/Graduate.  
A research seminar in any of the several recognized areas of anthropology.  
Prerequisites: jr st, Anthro 101(P) or 103(P); or Geo Sci 100(P), & cons instr; or grad st & cons instr.  
Current Offerings: [link to schedule]  
ANTHRO 699 Independent Work  
1-3 cr. Undergraduate.  
Advanced independent work under the supervision of an Anthro faculty or instructional academic staff member. Students must submit a study proposal. For further information, consult dept undergrad prog coord.  
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.  
Course Rules: May be retaken w/chg in topic.  
Last Taught: Fall 2016, Summer 2016, Spring 2016, Fall 2015.  
Current Offerings: [link to schedule]  
ANTHRO 705 Advanced Topics in Ethnography  
3 cr. Graduate.  
Critical examination of peoples and cultures of selected areas of the world.  
Prerequisites: grad st.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Current Offerings: [link to schedule]
ANTHRO 720 History and Theory of Museums  
3 cr. Graduate.  
History of the museum idea and its contemporary forms; educational, scientific, and changing uses of museums; museums and other institutions; museum professionalism and ethics.  
Prerequisites: grad st; cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 721 Administration and Organization of Museums  
3 cr. Graduate.  
Administration and organizational problems in modern museums; finances and budgets; legal-administrative problems; relations with support groups and volunteers, record keeping, management of museum projects.  
Prerequisites: grad st; cons instr; grade of B or better in Anthro 720(P).  
Current Offerings: http://uwm.edu/schedule

ANTHRO 722 Visitor Experience and Design in Museums  
3 cr. Graduate.  
Development and design of the museum visitor experience with a holistic approach including exhibitions, programs, and experience design.  
Prerequisites: grad st; cons instr; grade of B or better in Anthro 721(P).  
Current Offerings: http://uwm.edu/schedule

ANTHRO 723 Museum Curation  
3 cr. Graduate.  
Practicum in the collection, organization, storage, care and scientific use of museum collections. Projects available in various specialties, dependent upon interest and special faculty arrangements.  
Prerequisites: grad st; cons instr; grade of B or better in Anthro 721(P).  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 724 Internship in Museum Studies  
3 cr. Graduate.  
Supervised practical experience in museums arranged on an individual basis.  
Prerequisites: grad st; Anthro 720(P); cons instr.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 744 Theories of Social Action: Understanding Agency & Social Structure  
3 cr. Graduate.  
Seminar on theories of social action. Practice and performance theories and the structure vs. agency debate.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 762 Advanced Archaeological Analysis  
3 cr. Graduate.  
Study and practice in major phases of archaeological analysis.  
Prerequisites: grad st; cons instr.  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 763 Professionalism in Anthropology  
3 cr. Graduate.  
Skills needed to work in academia or an applied field; relevant to any of the four sub-fields or anthropology (archaeology, cultural, biological, or linguistic).  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 768 Topics in Advanced Research Design in Anthropology  
3 cr. Graduate.  
Methods of fitting various models to qualitative categorizations of archaeological, ethnographical, and biological data. Includes chi-square and multiclassificatory chi-squares, scaling, cluster analysis, markov chains, and game theory.  
Prerequisites: grad st; Anthro 568(R).  
Last Taught: Fall 2015, Fall 2013, Fall 2010, Spring 2007.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 797 Study Abroad:  
1-6 cr. Graduate.  
Allows graduate students to enroll in UWM sponsored program before course work level, content, and credits are determined and/or in specifically-prepared program course work.  
Prerequisites: grad st; acceptance in Study Abroad Prog.  
Course Rules: Retakable w/ chg in topic.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 801 A Survey of Physical Anthropology  
3 cr. Graduate.  
Reviews biological principles essential to an understanding of evolution. Reviews fields central to physical anthropology and human evolution: primatology, paleontology, anatomy, human genetics, population genetics.  
Prerequisites: grad st.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 802 Perspectives on Prehistory  
3 cr. Graduate.  
Surveys current theoretical and methodological concepts in archaeology, and their application to specific research problems. Readings include studies from both the old and new worlds.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 803 Survey of Cultural Anthropology  
3 cr. Graduate.  
A survey of major theoretical and methodological issues central to cultural anthropology.  
Prerequisites: grad st.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

ANTHRO 804 Linguistic Anthropology  
3 cr. Graduate.  
A survey of major theoretical and methodological issues central to cultural anthropology.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule
ANTHRO 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr will be assessed.
Current Offerings: http://uwm.edu/schedule

ANTHRO 920 Advanced Seminar in Museological Problems
3 cr. Graduate.
Use of museum collections/museums to examine museum work regarding legal considerations, ethics, documentation; use of collections to test theories and develop conceptual exhibits.
Prerequisites: grad st; Anthro 720(P).
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

ANTHRO 940 Seminar in Problems in Cultural Anthropology:
3 cr. Graduate.
Content varies.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Fred Anapol</td>
<td>Professor</td>
<td>PhD</td>
<td>State University of New York at Stony Brook</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Kalman Apblbaum</td>
<td>Professor</td>
<td>PhD</td>
<td>Harvard University</td>
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<tr>
<td>Ingrid Jordt Apblbaum</td>
<td>Associate Professor</td>
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<td>Bettina Arnold</td>
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<tr>
<td>Erica Bornstein</td>
<td>Associate Professor</td>
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<td>University of California, Irvine</td>
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<tr>
<td>Paul Brodwin</td>
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<td>Benjamin Campbell</td>
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<td>J. Patrick Gray</td>
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<td>Sidney M. Greenfield</td>
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<td>Tracey Heatherington</td>
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<tr>
<td>Jean Hudson</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Santa Barbara</td>
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<td>Robert J. Jeske</td>
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<td>Northwestern University</td>
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<td>Donald Kurtz</td>
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<td>Thomas Malaby</td>
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<tr>
<td>Brian Nicholls</td>
<td>Research Specialist</td>
<td>MS</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>Bernard Perley</td>
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<td>John D. Richards</td>
<td>Associate Scientist</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>Patricia Richards</td>
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<td>R. Jason Sherman</td>
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<td>University of Michigan - Ann Arbor</td>
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<tr>
<td>Neil C. Tappen</td>
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<tr>
<td>Trudy Turner</td>
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<td>PhD</td>
<td>New York University</td>
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<tr>
<td>William Washabaugh</td>
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<tr>
<td>Edward Wellin</td>
<td>Professor</td>
<td>PhD</td>
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ANTHRO 942 Seminar in Prehistory and Archaeology:
3 cr. Graduate.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ANTHRO 969 Seminar in Linguistic Anthropology:
3 cr. Graduate.
Advanced topics in the anthropological study of language.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ANTHRO 990 Research and Thesis
1-3 cr. Graduate.
Prerequisites: grad st; writ cons instr; writ cons dept chair.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ANTHRO 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st; writ cons instr.
Course Rules: Retakable to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
Anthropology, BA

Anthropology is the scientific study of human beings and their cultures across time and space. In the broadest sense, anthropology is about how the human species came to be, how it developed myriad ways of living in the world, and how those ways may change in the future. It is the major most closely associated with archaeology.

Anthropology is a unique field that combines elements of social science and natural science. Students will find themselves in all types of settings - out in the field collecting physical samples, in a lab analyzing fossils and specimens, interviewing individuals and groups to collect oral histories, in the library and community researching, and in the classroom learning how to fit all of the pieces of evidence into a cohesive theory.

Students at UWM will be exposed to all types of anthropological work. Some may find themselves more drawn to the "people" side of things and gravitate more towards electives that focus on culture and societal structures. Social anthropologists may examine issues such as workplace behavior, religious rituals, art, family structures or gender relations. Others may find linguistic anthropology - the study of the development of languages - more interesting. Students who have always envisioned themselves digging up artifacts will find archaeology or biological anthropology of most interest.

Regardless of specialization, hands-on experience is critical. UWM offers all types of field experience and research opportunities, locally and at spots around the globe.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
</tbody>
</table>

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits

**Humanities**

Select 6 credits

**Social Sciences**

Select 6 credits

**Natural Sciences**

Select 6 credits (at least two courses including one lab)

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

**College of Letters & Science Requirements**

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
</tbody>
</table>
MATH 175  Mathematical Explorations for Elementary Teachers I  3

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is not the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.
Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Anthropology Major Requirements

Students majoring in anthropology can select from a wide variety of courses organized under four subfields:

- Cultural Anthropology
- Archaeology
- Physical (or Biological) Anthropology
- Linguistic Anthropology

Although majors take some coursework in each of the four subfields, they are encouraged to shape their own programs to meet individual needs and interests. Students majoring in anthropology must earn a GPA of 2.500 or better in anthropology courses attempted at UWM. In addition, the College of Letters and Science requires that students attain a 2.500 or better GPA in all anthropology courses attempted, including any transfer work. The major in anthropology requires 36 credits within the department. At least 15 credits in advanced-level courses (numbered 300 or above) must be taken in residence at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 101</td>
<td>Introduction to Anthropology: Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 103</td>
<td>Digging Up the Past: Approaches to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 105</td>
<td>Introduction to Linguistic Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one from each of the curriculum categories below: 15

Research Experience

Select one of the following: 3

- ANTHRO 401 Primate Populations
- ANTHRO 497 Study Abroad: (Peru, Past and Present - Archaeological Perspective)
- ANTHRO 525 Zooarchaeology: Analysis of Faunal Remains
- ANTHRO 535 Analysis of Archaeological Ceramics
- ANTHRO 560 Introduction to Research Methods in Anthropology
- ANTHRO 566 Archaeological Analysis and Report Preparation

Capstone

- ANTHRO 460 Anthropological Theory 2

Total Credits: 33

1 This course may satisfy requirements in more than one category. However, no single course may count for more than two requirements.

2 Only seniors may enroll in ANTHRO 460, and it is recommended that they do so after having completed all other anthropology course requirements.

Curriculum Categories

Physical Anthropology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 301</td>
<td>Human Evolution and Variation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 401</td>
<td>Primate Populations 1</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 402</td>
<td>Primate Evolution</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 404</td>
<td>Seminar in Human Evolutionary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 406</td>
<td>Evolutionary Biology &amp; Human Diseases</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 407</td>
<td>Neuroanthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 408</td>
<td>Hormones and Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

Archaeology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 304</td>
<td>Violence and Warfare in Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 305</td>
<td>The Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 306</td>
<td>European Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 307</td>
<td>World Archaeology: Foundations of Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 308</td>
<td>Archaeology of North America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 309</td>
<td>Archaeology of Central and South America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 310</td>
<td>Archaeology of Middle America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 313</td>
<td>Archaeology of the American Southwest</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 420</td>
<td>Power and Ideology in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 421</td>
<td>Cities in the Ancient World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 424</td>
<td>Ethnoarchaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 425</td>
<td>Hunter-Gatherer Lifeways: Past and Present</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 465</td>
<td>Historic Preservation in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 466</td>
<td>Historical Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 501</td>
<td>Archaeology of Death</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 502</td>
<td>Lithic Analysis: Stone Tools and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains 1</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 535</td>
<td>Analysis of Archaeological Ceramics 1</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 555</td>
<td>Seminar in Regional Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 636</td>
<td>Geochronology</td>
<td>3</td>
</tr>
</tbody>
</table>

1 This course may satisfy requirements in more than one category. However, no single course may count for more than two requirements.

Ethnology and Related Sociocultural Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 302</td>
<td>Anthropology and Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 314</td>
<td>American Indian Societies and Cultures</td>
<td>3</td>
</tr>
</tbody>
</table>
ANTHRO 320  Peuples and Cultures of Africa  3  
ANTHRO 322  Europe in Anthropological Perspective  3  
ANTHRO 325  Japanese Culture and Society  3  
ANTHRO 326  Peuples and Cultures of South Asia  3  
ANTHRO 328  Comparative Studies of Music, Race, and Gender in Nationalism  3  
ANTHRO 335  American Indians of the Southeast  3  
ANTHRO 340  Cultures of Online Games and Virtual Worlds  3  
ANTHRO 349  Seminar in Ethnography and Cultural Processes  3  
ANTHRO 351  Anthropological Theories of Religion  3  
ANTHRO 354  Anthropology, Aesthetics, and Art  3  
ANTHRO 355  Globalization, Culture, and Environment  3  
ANTHRO 400  Human Sociobiology  3  
ANTHRO 431  Cities and Culture  3  
ANTHRO 440  Medical Anthropology  3  
ANTHRO 441  Nature, Knowledge, and Technoscience in Anthropological Perspective  3  
ANTHRO 442  Humanitarianism in Global Perspective  3  
ANTHRO 443  Medicine and Pharmaceuticals in the Global Age  3  
ANTHRO 445  Psychological Anthropology  3  
ANTHRO 446  The Child in Different Cultures  3  
ANTHRO 447  The Global Politics of Human Rights  3  
ANTHRO 448  Cultural and Human Ecology  3  
ANTHRO 449  The Human Economy  3  
ANTHRO 450  Political Anthropology  3  
ANTHRO 540  Applications of Anthropology  3  
ANTHRO 543  Cross-Cultural Study of Religion  3  
ANTHRO 544  Religious Giving in Anthropological Perspective  3  

Linguistic Anthropology  
Code  Title  Credits  
ANTHRO 361  Applications in Linguistic Anthropology  3  
ANTHRO 362  System Failure: Globalization and Language Extinction  3  
ANTHRO 570  Issues in Bilingualism  3  

Methods Courses  
Code  Title  Credits  
ANTHRO 497  Study Abroad: (Peru, Past and Present – Anthropological Perspective)  3  
ANTHRO 525  Zooarchaeology: Analysis of Faunal Remains  3  
ANTHRO 535  Analysis of Archaeological Ceramics  3  
ANTHRO 560  Introduction to Research Methods in Anthropology  3  
ANTHRO 561  Techniques and Problems in Ethnography  3  
ANTHRO 562  Techniques and Problems in Archaeology  3  
ANTHRO 566  Archaeological Analysis and Report Preparation:  3-6  

ANTHRO 567  Archaeological Field School  3-6  
ANTHRO 568  Introduction to Anthropological Statistics  3  

1  This course may satisfy requirements in more than one category. However, no single course may count for more than two requirements.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and
Anthropology, Minor

Anthropology is the scientific study of human beings and their cultures across time and space. In the broadest sense, anthropology is about how the human species came to be, how it developed myriad ways of living in the world, and how those ways may change in the future. It is the major most closely associated with archaeology.

Anthropology is a unique field that combines elements of social science and natural science. Students will find themselves in all types of settings - out in the field collecting physical samples, in a lab analyzing fossils and specimens, interviewing individuals and groups to collect oral histories, in the library and community researching, and in the classroom learning how to fit all of the pieces of evidence into a cohesive theory.

Students at UWM will be exposed to all types of anthropological work. Some may find themselves more drawn to the "people" side of things and gravitate more towards electives that focus on culture and societal structures. Social anthropologists may examine issues such as workplace behavior, religious rituals, art, family structures or gender relations. Others may find linguistic anthropology - the study of the development of languages - more interesting. Students who have always envisioned themselves digging up artifacts will find archaeology or biological anthropology of most interest.

Regardless of specialization, hands-on experience is critical. UWM offers all types of field experience and research opportunities, locally and at spots around the globe.

Requirements

The anthropology minor requires 18 credits within the department, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 101</td>
<td>Introduction to Anthropology: Human Origins</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one from each of the following curriculum categories:</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Physical Anthropology</td>
<td></td>
</tr>
</tbody>
</table>

Archaeology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 304</td>
<td>Violence and Warfare in Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 305</td>
<td>The Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 306</td>
<td>European Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 307</td>
<td>World Archaeology: Foundations of Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 308</td>
<td>Archaeology of North America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 309</td>
<td>Archaeology of Central and South America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 310</td>
<td>Archaeology of Middle America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 313</td>
<td>Archaeology of the American Southwest</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 420</td>
<td>Power and Ideology in Archaeology</td>
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<tr>
<td>ANTHRO 421</td>
<td>Cities in the Ancient World</td>
<td>3</td>
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<tr>
<td>ANTHRO 424</td>
<td>Ethnoarchaeology</td>
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<tr>
<td>ANTHRO 425</td>
<td>Hunter-Gatherer Lifeways: Past and Present</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 465</td>
<td>Historic Preservation in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 466</td>
<td>Historical Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 501</td>
<td>Archaeology of Death</td>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 502</td>
<td>Human Evolution and Variation</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Waiver or substitution in any of these categories may be approved, in some circumstances, by the assistant to the chair for undergraduate affairs in consultation with the student’s advisor.

Students must earn 9 credits in advanced-level courses (numbered 300 or above) taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.
Anthropology, MS

The Department of Anthropology offers programs of graduate study designed to provide a broad background in all significant facets of the discipline—biological as well as cultural, analytic as well as descriptive—while still encouraging specialization. It provides training both for students interested in an academic career in anthropology and for those concerned with practical issues approached from the integrative perspective of anthropology.

The department, in cooperation with the Milwaukee Public Museum, also offers a program leading to a Certificate in Museum Studies. The Milwaukee Public Museum, the fourth largest natural history museum in the country, is the site for methods courses that provide the student practical experience in museum work and for courses in the history and theory of museum exhibits. Each student’s program of studies includes training in anthropological theory and methods, issues and problems in cultural anthropology, archaeology, anthropological linguistics and physical anthropology, as well as topics that focus on the student’s area of particular interest.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in anthropology comparable to that at UWM.
2. Three letters of recommendation.
3. A writing sample such as a relevant term paper, article submission, etc.
4. Submission of scores from the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).

Applicants without an undergraduate major in anthropology can meet the first requirement in either of two ways:

1. By having completed junior-level courses in three of the four subfields of anthropology (archaeology, biological anthropology, cultural anthropology, or linguistics) with grades of B or better. These courses may be taken at any accredited college or university if they were not part of the applicant’s undergraduate career. Applicants also may take them as special students at UWM. Applicants planning to take such courses should check with the Director of Graduate Studies to verify that the courses will be acceptable.
2. Applicants lacking courses in anthropology may be admitted to the program and be allowed to take the core classes and advanced

Contact Information
Current Students contact Associate Professor Jean Hudson, jhudson@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/anthropology/undergraduate/

Ethnology and Related Sociocultural Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTHRO 302</td>
<td>Anthropology and Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 314</td>
<td>American Indian Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 320</td>
<td>Peoples and Cultures of Africa</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 322</td>
<td>Europe in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 326</td>
<td>Peoples and Cultures of South Asia</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 328</td>
<td>Comparative Studies of Music, Race, and Gender in Nationalism</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 335</td>
<td>American Indians of the Southeast</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 340</td>
<td>Cultures of Online Games and Virtual Worlds</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 351</td>
<td>Anthropological Theories of Religion</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 354</td>
<td>Anthropology, Aesthetics, and Art</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 400</td>
<td>Human Sociobiology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 431</td>
<td>Cities and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 442</td>
<td>Humanitarianism in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
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<tr>
<td>ANTHRO 445</td>
<td>Psychological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 446</td>
<td>The Child in Different Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 448</td>
<td>Cultural and Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 449</td>
<td>The Human Economy</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 450</td>
<td>Political Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 540</td>
<td>Applications of Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 544</td>
<td>Religious Giving in Anthropological Perspective</td>
<td>3</td>
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</table>

Linguistic Anthropology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 361</td>
<td>Applications in Linguistic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 570</td>
<td>Issues in Bilingualism</td>
<td>3</td>
</tr>
</tbody>
</table>

This course may satisfy requirements in more than one category. However, no single course may count for more than two requirements.
seminars without deficiencies under certain conditions. For example, an applicant with an outstanding GPA or very high GRE scores who has an undergraduate major closely related to his or her proposed field of specialization could be admitted under this option.

Students are expected to satisfy deficiency requirements within three semesters of enrolling in the program. Deficiencies are monitored by the Graduate School and the Director of Graduate Studies. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Application deadlines for admission to the program are January 15th for the following Fall semester and September 15th for the following Spring semester. Applicants requesting financial assistance may have other deadlines to be considered eligible. Contact the department’s Director of Graduate Studies for specific financial aid deadlines.

Credits and Courses
Students in the Master’s degree program in Anthropology are required to take a minimum of 30 credits, some of which are obtained by taking required courses. Required courses differ by concentration (requirements for students seeking to acquire a Certificate in Museum Studies are listed on that page.

### Archaeology Concentration

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>ANTHRO 801</td>
<td>A Survey of Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 802</td>
<td>Perspectives on Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
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**Methods**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
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<tr>
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<tbody>
<tr>
<td>ANTHRO 380</td>
<td>Anthropological Applications of GIS</td>
<td></td>
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<tr>
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<td>Archaeology of Death</td>
<td></td>
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<tr>
<td>ANTHRO 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains</td>
<td></td>
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<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 566</td>
<td>Archaeological Analysis and Report Preparation:</td>
<td></td>
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<tr>
<td>ANTHRO 567</td>
<td>Archaeological Field School</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 768</td>
<td>Topics in Advanced Research Design in Anthropology</td>
<td></td>
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</tbody>
</table>

Or an alternative approved by the advisor and the Director of Graduate Studies

**Advanced Seminar**

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 763</td>
<td>Professionalism in Anthropology</td>
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</table>

**Electives**

Select 12 credits 12

Total Credits 30

### Biological Anthropology Concentration

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<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
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</tr>
</tbody>
</table>

Course approved by the advisor and the Director of Graduate Studies 3

**Advanced Seminar**

Course approved by the advisor and the Director of Graduate Studies 3

**Electives**

Select 12 credits 12

Total Credits 30

### Cultural Anthropology Concentration

<table>
<thead>
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<tbody>
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<td>Survey of Cultural Anthropology</td>
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</table>

**Methods**

Select two of the following: 6

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>ANTHRO 560</td>
<td>Introduction to Research Methods in Anthropology</td>
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</tr>
<tr>
<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
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**Advanced Seminar**

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<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTHRO 940</td>
<td>Seminar in Problems in Cultural Anthropology</td>
<td>3</td>
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</tbody>
</table>

**Electives**

Select 12 credits 12

Total Credits 30

Students may request a waiver for any of the above required courses except the advanced seminar. To request a waiver, a student must submit a letter to the Graduate Studies Committee. Requests must be accompanied by documentation demonstrating that the student is competent in the subject area of the course for which the waiver is sought. A waived course must be replaced by an anthropology course numbered 700 or above.

Students must maintain a B (3.0) average or better overall. The three core courses must be completed with an average of 3.0 or better. Students with a grade below a B in a core course subsequently accepted into the Ph.D. program must retake the course until they achieve a grade of B or better.

A thesis is required of all students; students may apply up to 6 credits of Research/Thesis courses toward meeting the minimum credits for the degree. The thesis must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the thesis to the
Program Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student selects an advisor, in consultation with the Director of Graduate Studies, by the end of the first semester of the program.

Thesis Defense
The student must pass an oral thesis defense. The examination committee must consist of at least three individuals, with a majority being members of the Anthropology Department.

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

Anthropology, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UWM-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

• The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
• The MLIS portion of the coordinated degrees can be completed online.
• Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

MLIS/MS Anthropology

The MLIS/MS Anthropology Coordinated Degree Program (51 credits) prepares students for positions as curators of museum libraries; and as information specialists and researchers for local history collections and state historical societies.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Degree Requirements
Students enrolled in this program concurrently pursue the MS degree in Anthropology (p. 1028) (21 credits in Anthropology—9 fewer elective credits) and the MLIS degree (p. 951) (30 credits in SOIS). Candidates for the coordinated degree program will be expected to fulfill the degree requirements of both programs. Degrees will be awarded simultaneously.

Credits and Courses

Archaeology Concentration

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Advanced Seminar

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Electives

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<td>Select 12 credits</td>
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Total Credits 30

Biological Anthropology Concentration

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Methods
ARTHR 568  Introduction to Anthropological Statistics 3
Course approved by the advisor and the Director of Graduate Studies

**Advanced Seminar**
Course approved by the advisor and the Director of Graduate Studies

**Electives**
Select 12 credits 12
Total Credits 30

**Cultural Anthropology Concentration**

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**Methods**
Select two of the following: 6

- ANTHRO 560  Introduction to Research Methods in Anthropology
- ANTHRO 561  Techniques and Problems in Ethnography
- ANTHRO 568  Introduction to Anthropological Statistics

**Advanced Seminar**

- ANTHRO 940  Seminar in Problems in Cultural Anthropology 3

**Electives**
Select 12 credits 12
Total Credits 30

Students may request a waiver for any of the above required courses except the advanced seminar. To request a waiver, a student must submit a letter to the Graduate Studies Committee. Requests must be accompanied by documentation demonstrating that the student is competent in the subject area of the course for which the waiver is sought. A waived course must be replaced by an anthropology course numbered 700 or above.

Students must maintain a B (3.0) average or better overall. The three core courses must be completed with an average of 3.0 or better. Students with a grade below a B in a core course subsequently accepted into the Ph.D. program must retake the course until they achieve a grade of B or better.

A thesis is required of all students; students may apply up to six credits of Research/Thesis courses toward meeting the minimum credits for the degree. The thesis must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the thesis to the Graduate School and a signed, unbound “hard” copy to the Department of Anthropology.

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

**Anthropology, PhD**

The Department of Anthropology offers programs of graduate study designed to provide a broad background in all significant facets of the discipline—biological as well as cultural, analytic as well as descriptive—while still encouraging specialization. It provides training both for students interested in an academic career in anthropology and for those concerned with practical issues approached from the integrative perspective of anthropology.

The department, in cooperation with the Milwaukee Public Museum, also offers a program leading to a Certificate in Museum Studies. The Milwaukee Public Museum, the fourth largest natural history museum in the country, is the site for methods courses that provide the student practical experience in museum work and for courses in the history and theory of museum exhibits. Each student’s program of studies includes training in anthropological theory and methods, issues and problems in cultural anthropology, archaeology, anthropological linguistics and physical anthropology, as well as topics that focus on the student’s area of particular interest.

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
An applicant must meet Graduate School (http://uwm.edu/graduateschool/admission) requirements plus the following departmental requirements to be considered for admission to the program:

1. A general master’s degree in anthropology or equivalent preparation without the master’s degree. An applicant with a master’s degree in another field may be admitted if the student has a grade point average of 3.0 (4.0 scale) in graduate work and is approved by the departmental Graduate Admissions Committee.
2. Three letters of recommendation.
3. A writing sample such as a relevant term paper, article submission, etc.
4. Submission of scores from the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/gre).

Applicants are accepted into the PhD program only if a faculty member agrees to serve as major professor. Applicants are encouraged to contact the faculty member they wish to work with prior to applying to the
program. The applicant’s statement of purpose should identify his or her proposed major professor.

Application deadlines for admission to the program are January 15th for the following fall semester and September 15th for the following spring semester. Applicants requesting financial assistance may have other deadlines to be considered eligible. Contact the department’s graduate advisor for specific financial aid deadlines.

Reapplication
A student who receives the master’s degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

Credits and Courses
Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. A student lacking any of the courses (or equivalents taken elsewhere) required to attain a Master’s degree in his/her major area of concentration must complete these courses as part of his/her PhD work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 801</td>
<td>A Survey of Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 802</td>
<td>Perspectives on Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

Methods
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 380</td>
<td>Anthropological Applications of GIS</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 501</td>
<td>Archaeology of Death</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 535</td>
<td>Analysis of Archaeological Ceramics</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 566</td>
<td>Archaeological Analysis and Report Preparation:</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 567</td>
<td>Archaeological Field School</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 560</td>
<td>Introduction to Research Methods in Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 768</td>
<td>Topics in Advanced Research Design in Anthropology</td>
<td></td>
</tr>
</tbody>
</table>

Other courses with the approval of the advisor and Director of Graduate Studies

Advanced Seminar
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 940</td>
<td>Seminar in Problems in Cultural Anthropology.</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 942</td>
<td>Seminar in Prehistory and Archaeology.</td>
<td></td>
</tr>
</tbody>
</table>

Other courses with the approval of the advisor and Director of Graduate Studies

Foreign Language/Specialization

A foreign language or specialized scholarly skill

<table>
<thead>
<tr>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

Foreign Language or Specialized Scholarly Skill
The candidate may satisfy this requirement by demonstrating one of the following:

- Proficiency in a foreign language useful in the student’s career.
- Proficiency in mathematical, statistical, or computer skills.
- Proficiency in other skills that meet departmental approval.

Program Requirements
Doctoral Preliminary Examination and Dissertation Proposal Defense
The candidate must pass an oral doctoral preliminary examination as one of the qualifications for achieving dissertator status. Candidates choose two to four topics in consultation with their advisor for the Preliminary Examination. The topics must be broader than, but related to, the focus of the candidate’s proposed dissertation research. The topics must be approved by the Department’s Graduate Studies Committee and the Department faculty. The preliminary examination must be passed within five years of initial enrollment for a student to be eligible to continue in the program.

The candidate must pass a formal dissertation proposal hearing prior to starting dissertation research.

Dissertation
The candidate must prepare a dissertation reporting in the candidate’s own style the results of an original research investigation representing a substantive creative contribution.

The dissertation must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the dissertation to the Graduate School and a signed, unbound “hard” copy to the Department of Anthropology.

Dissertation Defense
As the final step toward the degree, the candidate must pass an oral examination before his/her doctoral committee in defense of the dissertation.

Residence
The student must meet minimum Graduate School residence requirements.

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

Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)
The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train
students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility
Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements
To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610 or HCA 212</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 650</td>
<td>Molecular Diagnostics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility
Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements
To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in...
the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>or ANTHRO 404</td>
<td>Seminar in Human Evolutionary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 212</td>
<td>Drugs Used and Abused</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>BMS 560 &amp; BMS 561</td>
<td>Molecular and Genetic Diagnostics and Molecular Diagnostics Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 21-22

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
</tbody>
</table>

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>or ANTHRO 404</td>
<td>Seminar in Human Evolutionary Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 21

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
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<td>3</td>
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<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credits 21

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
</tbody>
</table>
Museum Studies, Graduate Certificate

The Museum Studies Program was established in 1963 as a cooperative venture between UW-Milwaukee and the Milwaukee Public Museum. The goal of the program is to provide, in a museum environment, the basic scholarship and functional training to equip the student with the skills necessary to assume professional entry-level museum positions in:

- museums
- galleries
- archives
- historical societies
- related institutions

Coursework is structured to develop a high degree of professionalism and responsibility, skills in problem solving, critical thinking and evaluation, writing, oral presentation, decision-making, and teamwork.

The program stresses professional museum standards and ethics and proper care and interpretation of collections while providing the opportunity for the development of expertise and special skills. The program is designed to be practical and realistic.

The Certificate in Museum Studies must be completed in conjunction with a UWM graduate degree program. The certificate is designed to supplement a student’s graduate discipline and assumes that each student will have a firm footing in his/her academic field.

The program is listed and administered through the Anthropology Department at UW-Milwaukee and taught off-campus at the Milwaukee Public Museum (MPM) by museum professionals. All applicants to the Museum Studies certificate program must comply with a background check as required by Milwaukee Public Museum policy. Individuals with criminal records cannot be admitted to the program.

Regular individual academic advising and career planning are important features of the program. The majority of graduates of the program find a paid position in a museum within one year of graduation. Graduates of the program have assumed responsibilities in museums and related institutions across the country as directors, curators, collections managers, registrars, educators, and more.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application

Students must complete a minimum of 15 credits to earn the Museum Studies Graduate Certificate. Those interested in attaining the Certificate must indicate this in their application to their chosen graduate degree program in addition to completing a separate application for the Certificate. Students deciding to pursue the Certificate after having started a graduate degree program must both notify in writing the Director of Graduate Studies of their chosen graduate program and complete the Certificate online application.

Application

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

Credits and Courses

The certificate program consists of five courses (15 credits) at the graduate level. The four core courses must be taken in the following sequence, while the fifth course may be taken at any time after the completion of ANTHRO 721:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 720</td>
<td>History and Theory of Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 721</td>
<td>Administration and Organization of Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 722</td>
<td>Visitor Experience and Design in Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 723</td>
<td>Museum Curation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 724</td>
<td>Internship in Museum Studies</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

The fifth course requirement (ANTHRO 724) can be satisfied through supplementary coursework at UWM or through completion of a 150-hour internship at the Milwaukee Public Museum or other approved institution. Anthropology, Art History, History, and Educational Psychology all offer courses that supplement the Museum Studies curriculum and fulfill the required elective. The structure and scheduling of the coursework requires at least two years for completion, since each course is taught only once a year and the four courses must be taken in sequence.

Certificate Requirements

Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.
Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

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

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

Contact Information
Sabin, 304
Phone: (414) 229-6323
woodw@uwm.edu
https://uwm.edu/museum-studies/
ART HISTORY

The history of art is the study of humanity's efforts to express its ideas, experiences, and beliefs in visual and graphic form: in painting, sculpture, architecture, graphic art, design, film, and performance arts. It also is the historical study of the attempt to reorder the physical environment through urban and architectural planning. Courses in the Department of Art History are designed to train students to deal with such studies in the context of the cultural, social, political, economic, and religious climates of different historical eras, as well as to foster an understanding of the specific development, materials, theory, and parameters of art. Internships and colloquia in art museum studies afford qualified students more specialized experience in connoisseurship, curatorial practices, and arts management.

Students in Art History at UWM have unique access to thousands of pieces of artwork. The Emile H. Mathis Art Gallery contains over 7,000 objects covering Western and non-Western art and spanning a time frame from ancient to contemporary art. Notable artists represented in the Gallery include Jean Arp, Joan Miro, Henry Moore, Victor Vasarely, Alexander Calder, and Pablo Picasso. Check out the video of the Mathis Gallery (https://www.youtube.com/watch?v=7ClNKGnwnOQ).

Programs

- Art History and Criticism, Minor (p. 1046)
- Art History, BA (p. 1046)
- Art History, MA (p. 1050)

Art History Courses

ARTHIST 101 Ancient and Medieval Art and Architecture
3 cr. Undergraduate.
The great originative styles of Egypt, Greece, Rome, and the Christian West in architecture, sculpture, and painting.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ARTHIST 102 Renaissance to Modern Art and Architecture
3 cr. Undergraduate.
Representative masters in the historical development of European painting, sculpture, and architecture from the fifteenth century to the present.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARTHIST 103 History of Architecture
3 cr. Undergraduate.
Architecture from Stonehenge to the present, examining the nature of the art, major styles and significant architects, and relation to society, technology, and the environment.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARTHIST 104 African, New World and Oceanic Art and Architecture
3 cr. Undergraduate.
Major art forms in oceanic, pre-Columbian, American Indian, and African art; their functions and meanings.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ARTHIST 105 Asian Art and Architecture
3 cr. Undergraduate.
Functions and meanings of major art forms in the art of Asia, including India, China, Japan, and Southeast Asia.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARTHIST 111 Entertainment Arts: Film, Television, and the Internet
3 cr. Undergraduate.
History of film, television, and the Internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form.
Prerequisites: none.
Course Rules: ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ARTHIST 192 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ARTHIST 205 History of Film I: Development of an Art
3 cr. Undergraduate.
The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.
Prerequisites: none.
Course Rules: ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ARTHIST 206 History of Film II: Development of an Art
3 cr. Undergraduate.
The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.
Prerequisites: none.
Course Rules: ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ARTHIST 210 The Art and Architecture of the First Cities: A Global Perspective
3 cr. Undergraduate.
The art and monuments of the first cities of the ancient world from the Near East to the Americas which gave rise to urbanization as we know it.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ARTHIST 220 Introduction to Medieval Art and Architecture
3 cr. Undergraduate.
Introduces key principles of artistic production in the late Roman, early Christian, Byzantine, and Medieval periods, c. 150-800 CE, including the style, the role of the Bible in medieval image theory, iconography, and typology.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ARTHIST 237 Northern Renaissance Art
3 cr. Undergraduate.
Painting, graphics, and sculpture, 1364-1569; their influence on great 15th- and 16th-century styles. Main French, Dutch, and German artistic developments in historical context.
Prerequisites: soph st.
Last Taught: Spring 2017, Fall 2015, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ARTHIST 240 Introduction to Prints and Printmaking: History and Techniques
3 cr. Undergraduate.
The history of print media and its development in Europe, Asia, and the Americas since 1450. Emphasis on historical, artistic, material, cultural contexts.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

ARTHIST 241 Introduction to Baroque Art
3 cr. Undergraduate.
Representative masters of the 17th century, including Caravaggio, Rubens, Rembrandt, Bernini, Velazquez, and Poussin.
Prerequisites: soph st.
General Education Requirements: HU
Last Taught: Fall 2013, Fall 2011, Spring 2010, Spring 2009.
Current Offerings: http://uwm.edu/schedule

ARTHIST 250 Introduction to American Art
3 cr. Undergraduate.
Traces major artists, styles, themes, and issues in American painting, sculpture, and photography from colonial through contemporary periods.
Prerequisites: soph st.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ARTHIST 251 Introduction to the Art and Architecture of Latin America
3 cr. Undergraduate.
Art and architecture of Latin America from 1492 to the mid-twentieth century.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ARTHIST 255 Survey of Italian Renaissance Painting and Sculpture
3 cr. Undergraduate.
Overview of Italian Renaissance art, tracing its origins with the painter Giotto in the fourteenth century to its culmination in Michelangelo's sixteenth-century masterpieces.
Prerequisites: none
Last Taught: Fall 2016, Spring 2014.
Current Offerings: http://uwm.edu/schedule

ARTHIST 260 Spanish Visual Art and Culture: 1450-1830
3 cr. Undergraduate.
Masterpieces by Spanish artists, including El Greco, Velazquez, and Goya; the social and intellectual forces at play in their works.
Prerequisites: soph st.
Current Offerings: http://uwm.edu/schedule

ARTHIST 261 Modern Art
3 cr. Undergraduate.
Survey of characteristics and developments of modern art movements. Representative theories, groups, and personalities.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ARTHIST 270 Pre-Columbian Art, Myth, and Legacy
3 cr. Undergraduate.
The conquest of the Americas and the art of three Pre-Columbian civilizations: the Aztec, Maya, and Inca.
Prerequisites: none.
Last Taught: Spring 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ARTHIST 281 Modern and Contemporary Chinese Art
3 cr. Undergraduate.
Comprehensive survey of modern and contemporary Chinese art history.
Prerequisites: none.
Last Taught: Fall 2015, Spring 2014, Spring 2012.
Current Offerings: http://uwm.edu/schedule
ARTHIST 289 Internship in Art History, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of art history in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in ArtHist; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ARTHIST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ARTHIST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ARTHIST 307 Film Directors:
3 cr. Undergraduate/Graduate.
Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work.
Prerequisites: jr st; ArtHist 205(R) or 305(R).
Course Rules: May be retaken w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ARTHIST 308 Film Styles:
3 cr. Undergraduate/Graduate.
A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ARTHIST 312 Minoan and Mycenaean Art and Archaeology
3 cr. Undergraduate/Graduate.
Architecture, sculpture, and painting in the Aegean during the Bronze Age, with emphasis on recent archaeological discoveries.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ARTHIST 313 Greek Art and Archaeology
3 cr. Undergraduate/Graduate.
Major developments in Greek art from Archaic times through the Hellenistic period. Emphasis on architecture, sculpture, and painting of the Archaic and Classical periods.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ARTHIST 314 Art and Archaeology of the Ancient Near East
3 cr. Undergraduate/Graduate.
Ur, Gilgamesh, Mesopotamia; the art and archaeology of the first cities in the ancient Near East from the Neolithic to Alexander the Great's conquest.
Prerequisites: jr st; ArtHist 101(P).
Course Rules: Counts as repeat of ArtHist 499 w/same topic.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

ARTHIST 315 Art and Archaeology of Ancient Egypt
3 cr. Undergraduate/Graduate.
Architecture, arts, and crafts created for Egyptian kings, nobles, and commoners from the Predynastic period (5500 B.C.E.) to Cleopatra (31 B.C.E.).
Prerequisites: jr st; ArtHist 101(R).
Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARTHIST 316 Roman Art and Archaeology
3 cr. Undergraduate/Graduate.
Major developments in the evolution of Roman architecture, sculpture and painting from Republican through late Imperial times.
Prerequisites: jr st.
Last Taught: Spring 2015, Fall 2012, Spring 2011, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ARTHIST 324 Early Christian and Byzantine Art and Architecture
3 cr. Undergraduate/Graduate.
Art and architecture of Constantinople and vicinity from the fourth to the fifteenth century.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2017, Fall 2015, Fall 2012, Spring 2006.
Current Offerings: http://uwm.edu/schedule

ARTHIST 325 Early Medieval Art in the West
3 cr. Undergraduate/Graduate.
Architecture, sculpture, metalwork, and manuscript illumination from c.500-c.1050 C.E. in Ireland, Britain, France, Spain, Germany, Scandinavia, and Northern Italy.
Prerequisites: jr st; ArtHist 101(R).
Current Offerings: http://uwm.edu/schedule

ARTHIST 327 Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain
3 cr. Undergraduate/Graduate.
Visual arts of the peoples that lived in Al-Andalus (the Arabic name for Muslim Spain) from the 8th to the 15th centuries.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2011.
Current Offerings: http://uwm.edu/schedule
ARTHIST 329 Late Medieval Art and Architecture  
3 cr. Undergraduate/Graduate.  
Church architecture, manuscript illumination, and architectural and figural sculpture from the Gothic era to the rise of the Renaissance.  
Prerequisites: jr or cons instr.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 333 High Renaissance Art in Italy  
3 cr. Undergraduate/Graduate.  
The formation of the great style discussed in terms of the attainments of representative artists such as Leonardo da Vinci, Michelangelo, Raphael, and Titian.  
Prerequisites: jr st.  
Last Taught: Fall 2017, Spring 2015, Fall 2012, Summer 2010.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 341 Art of the Dutch Golden Age  
3 cr. Undergraduate/Graduate.  
The development of art in Flanders and Holland during the seventeenth century, examining the works of artists Rubens, Van Dyck, Rembrandt, Hals, and Vermeer.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 342 Art and Society in Renaissance Florence  
3 cr. Undergraduate/Graduate.  
Masterpieces by artists including Donatello, Piero della Francesca, and Botticelli in concert with Florentine civic discourse on politics, religion, and gender.  
Prerequisites: jr st.  
Last Taught: Fall 2011, Fall 2007.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 343 Art and Culture of Spain and Latin America, 1500-1750  
3 cr. Undergraduate/Graduate.  
Art and culture in Spain and its empire, including Mexico and Peru. Major artists such as El Greco, Velázquez, and Ribera.  
Prerequisites: jr st or cons instr.  
Last Taught: Spring 2017, Fall 2015, Spring 2011, Fall 2007.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 349 American Postmodernism 1960-2000  
3 cr. Undergraduate/Graduate.  
Prerequisites: ArtHist 102(P)  
Last Taught: Fall 2016, Fall 2012, Fall 2006, Fall 2003.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 351 English Art: 1550-1850  
3 cr. Undergraduate/Graduate.  
Architecture, painting, and sculpture in England from Elizabeth I to the Great Exhibition of 1851; emphasis on Wren, Adam, Reynolds, Gainsborough, Constable, and Turner.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 353 American Art: Colonial Period - 1870  
3 cr. Undergraduate/Graduate.  
Architecture, painting, sculpture, and decorative arts of colonial America through the civil war period with emphasis on their aesthetic and social contexts.  
Prerequisites: jr st.  
Last Taught: Fall 2016, Fall 2013, Fall 2011, Spring 2010.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 354 American Art: 1870 - Present  
3 cr. Undergraduate/Graduate.  
Painting, sculpture, and the decorative arts from 1870 to the present with emphasis on their aesthetic and social contexts.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 355 American Folk Art  
3 cr. Undergraduate/Graduate.  
Survey of American folk art from colonization to the present. Emphasis on major styles and themes, regional developments, and relationship to the fine arts.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 357 Nineteenth-Century Painting in Europe  
3 cr. Undergraduate/Graduate.  
History of European painting from 1800 to 1900.  
Prerequisites: jr st.  
Last Taught: Spring 2016, Fall 2014, Fall 2012, Summer 2008.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 358 Modern Painting I: 1850-1900  
3 cr. Undergraduate/Graduate.  
Realist, Impressionist, and Post-Impressionist movements in historical and intellectual contexts; emphasis on Courbet, Manet, Renoir, Degas, Pissaro, Seurat, Cezanne, Gauguin, Ensor, Munch, Van Gogh.  
Prerequisites: jr st.  
General Education Requirements: HU  
Last Taught: Fall 2017, Fall 2016, Spring 2012, Spring 2011.  
Current Offerings: http://uwm.edu/schedule

ARTHIST 359 Modern Architecture I: The European Foundations of Modern Architecture  
3 cr. Undergraduate/Graduate.  
An aesthetic, stylistic, theoretical, technical and functional study of European architecture from the end of the Baroque style to the beginning of Modernism.  
Prerequisites: jr st; ArtHist 101(R) & 102(R).  
Current Offerings: http://uwm.edu/schedule

ARTHIST 360 Modern Architecture II: The Rise of Modern Architecture  
3 cr. Undergraduate/Graduate.  
Emphasizing the work of the major modern architect, the course traces the evolution of architecture from the beginnings of Modernism to the present time.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule
ARTHIST 361 Modern Architecture III: Contemporary Architecture
3 cr. Undergraduate/Graduate.
The intellectual, visual, and social evolution of architecture since the early 1960's.
Prerequisites: jr st; ArtHist 360(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ARTHIST 363 Modern Sculpture: 1880-1945
3 cr. Undergraduate/Graduate.
Development of the Expressionist, Cubist, Futurist, Dada, Surrealist, and Constructivist movements and work of independent sculptors against the twentieth century historical and intellectual background.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ARTHIST 364 Modern Painting II: 1900 to the Present
3 cr. Undergraduate/Graduate.
Development of the Fauve, Cubist, Expressionist, Dada, Surrealist, and Abstract movements against the historical and intellectual background of the twentieth century. Emphasis on leading individual twentieth century artists.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ARTHIST 365 History of Photography
3 cr. Undergraduate/Graduate.
A survey of photography from its inception in 1826 to the present. Topics include stylistic and technological evolution, cultural impact, and aesthetic considerations of photography.
Prerequisites: jr st; ArtHist 102(R) or 357(R).
Current Offerings: http://uwm.edu/schedule

ARTHIST 366 German Painting, 1800-1933
3 cr. Undergraduate/Graduate.
Major German painters from Runge to Beckmann. Romantic art theory, landscape, Expressionism, and 'Neue Sachlichkeit.'
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ARTHIST 367 Latin American Modernisms
3 cr. Undergraduate/Graduate.
Modernist developments in Latin American art, circa 1900 to circa 1960. National and regional histories and artistic trajectories; relationships between European and Latin American modernisms.
Prerequisites: jr st.
Last Taught: Spring 2009, Fall 2006.
Current Offerings: http://uwm.edu/schedule

ARTHIST 368 History of Modern Design
3 cr. Undergraduate/Graduate.
An investigation of the craft or decorative arts-specially furniture, ceramics, glass, metalwork, and textiles-from the Great Exhibition of 1851 to the present.
Prerequisites: jr st.
Last Taught: Spring 2016, Fall 2011, Fall 2008, Fall 2006.
Current Offerings: http://uwm.edu/schedule

ARTHIST 369 Introduction to Contemporary Art
3 cr. Undergraduate/Graduate.
Legacies of Minimalism and Conceptual Art on global contemporary art movements such as site-specific art, earth and land art, institutional critique, body and performance art.
Prerequisites: jr st.
Course Rules: Counts as repeat of ArtHist 470 w/same topic.
Last Taught: Fall 2017, Fall 2015, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ARTHIST 370 Trends in Contemporary Architecture
3 cr. Undergraduate/Graduate.
Current trends in architectural practice, focusing on organic and animate built forms, as well as modular and portable structures within performative, digital, and visual architecture.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ARTHIST 371 African Art
3 cr. Undergraduate/Graduate.
Art of the indigenous peoples of different sections of Africa, with consideration of both aesthetic qualities and the social context of the art.
Prerequisites: jr st.
Last Taught: Spring 2017, Fall 2014, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ARTHIST 372 Art of the Inca and their Ancestors
3 cr. Undergraduate/Graduate.
Native arts of South America before European contact; emphasis on artistic developments in the Andean region.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

ARTHIST 373 Art of Ancient Mexico and Central America
3 cr. Undergraduate/Graduate.
Arts of ancient Mexico and Central America; emphasis on the Olmec, the Maya, and the Aztecs.
Prerequisites: jr st.
Last Taught: Fall 2010, Fall 2009, Fall 2007, Fall 2006.
Current Offerings: http://uwm.edu/schedule

ARTHIST 375 Art of the Aztec Empire
3 cr. Undergraduate/Graduate.
Comprehensive introduction to the art of the Aztec Empire, including architecture, monumental sculpture, small-scale sculpture, ceramics, painting, lapidary work, goldwork, and featherwork.
Prerequisites: jr st.
Course Rules: Counts as repeat of ArtHist 499 with same subtitle.
Current Offerings: http://uwm.edu/schedule

ARTHIST 381 Honors Seminar:
3 cr. Undergraduate.
Specific topics vary.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2017, Spring 2017, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule
ARTHIST 382 Chinese Art and Architecture  
3 cr. Undergraduate/Graduate.  
Chinese bronzes, jades, painting, sculpture, and architecture from the Neolithic (5000 B.C.E.) to the modern period, including Buddhist, Daoist, Confucianist, and Communist art.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 383 Japanese Art and Architecture  
3 cr. Undergraduate/Graduate.  
Japanese temples, shrines, paintings, prints, and crafts from the Neolithic to the modern period, including films, Zen art, and the tea ceremony.  
Prerequisites: jr st.  
Last Taught: Spring 2018, Fall 2016, Spring 2015.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 384 Art and Archaeology of the Chinese Bronze Age  
3 cr. Undergraduate/Graduate.  
In-depth study of ritual bronzes and other crafts created for nobles and commoners of the Bronze Age, with emphasis on recent archaeological discoveries.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 386 Art, Ritual, and Ethnicity of China  
3 cr. Undergraduate/Graduate.  
In depth introduction to the ethnic arts and religions of China; architecture, painting, film, and religious ceremonies of Daoism, Buddhism, and Dongba.  
Prerequisites: jr st or cons instr.  
Last Taught: Spring 2017, Fall 2013.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 412 Cities and Sanctuaries of Ancient Greece  
3 cr. Undergraduate/Graduate.  
Development of Greek urban and religious architecture from Archaic through Hellenistic times. The growth of such centers as Athens, Delphi, Olympia, Paestum, Priene, and Pergamon.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 413 Greek Sculpture  
3 cr. Undergraduate/Graduate.  
Development of sculpture from the Geometric Period through the Hellenistic age. All forms of sculpture considered, not just freestanding works.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 425 The Age of Pilgrimage and Crusade: Romanesque Art and Architecture  
3 cr. Undergraduate/Graduate.  
Development of church architecture of the eleventh and twelfth centuries in France, England, and Germany.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 426 The Age of the Great Cathedrals: Gothic Art and Architecture  
3 cr. Undergraduate/Graduate.  
Gothic art and architecture from its origins in the Ile-de-France through the High Gothic cathedrals to the European-wide diffusion of the Rayonnant style.  
Prerequisites: jr st; ArtHist 101(R) or 220(R).  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 431 Renaissance Architecture in Italy  
3 cr. Undergraduate/Graduate.  
Florentine and other Italian architecture in the fifteenth and sixteenth centuries; such artists as Brunelleschi, Alberti, Bramante, Leonardo da Vinci, Michelangelo, and Palladio.  
Prerequisites: jr st.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 447 Topics in Early Modern Art:  
3 cr. Undergraduate/Graduate.  
Key themes, genres, and artists in European art from the fourteenth through the seventeenth centuries. Themes may include gender, politics, and religion.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2005.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 458 A Comparative History of Architecture and Urbanism:  
3 cr. Undergraduate/Graduate.  
Physical history of contrasting cities, concentrating on architectural development of all types: institutional, commercial, industrial, residential, and recreational. Emphasizes historical context as well as formal development.  
Prerequisites: jr st.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Current Offerings: http://uwm.edu/schedule  

ARTHIST 459 American Architecture  
3 cr. Undergraduate/Graduate.  
Architecture in the United States from its beginnings in the 17th century to its absorption into international Modernism at the time of World War II.  
Prerequisites: jr st; ArtHist 103(P) or 102(P) or cons instr.  
Current Offerings: http://uwm.edu/schedule
**ARTHIST 462 Frank Lloyd Wright**
3 cr. Undergraduate/Graduate.
The work of America's and Wisconsin's best-known architect presented in its historical, cultural and philosophical contexts.
**Prerequisites:** jr st; one of the following courses recom: ArtHist 102(R), 359(R), 360(R), 459(R).
**Last Taught:** Fall 2017, Fall 2011, Fall 1996, Fall 1993.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 463 Cubism and its Inheritance**
3 cr. Undergraduate/Graduate.
The development of Cubism by Picasso and Braque and its progeny in Paris, in futuristic Italy, and in constructivist Russia.
**Prerequisites:** jr st.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 464 European Art, 1890-1910**
3 cr. Undergraduate/Graduate.
European art in a pivotal period in the history of modern painting, architecture, and sculpture; post-impressionism, symbolism, art nouveau, fauvism, expressionism, and cubism.
**Prerequisites:** jr st.
**Last Taught:** Fall 2013, Spring 2009.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 465 Dada and Surrealist Art**
3 cr. Undergraduate/Graduate.
Two major twentieth-century art movements; their sources, major proponents, and later influence; Duchamp, De Chirico, Ernst, Giacometti, Picasso, Miro, Magritte, Dali.
**Prerequisites:** jr st.
**Last Taught:** Spring 2016, Fall 2012, Fall 2010, Fall 2007.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 469 American Artists Revealed:**
3 cr. Undergraduate/Graduate.
Focus on prominent 19th and 20th century American master artists working in various genres and formal approaches.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Spring 2017, Spring 2014, Fall 2010, Summer 2005.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 470 Topics in American Art:**
3 cr. Undergraduate/Graduate.
In-depth examination of important themes, genres, or subgroups in the evolution of American art.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Fall 2017, Spring 2016, Fall 2015, Spring 2015.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 471 Topics in Contemporary Art:**
3 cr. Undergraduate.
Art from the 1960s to the present.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 472 History and Theory of New Media Art**
3 cr. Undergraduate/Graduate.
The history and critical theory of new media artworks, focusing on artists who utilize interactive technologies.
**Prerequisites:** jr st.
**Last Taught:** Fall 2017, Fall 2015, Fall 2014, Spring 2013.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 473 Art and Performance**
3 cr. Undergraduate/Graduate.
Intersections between art and performance, beginning in the 1960s, and including performance and body art, live art, dance, and participatory or relational post-studio art practice.
**Prerequisites:** jr st.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 474 Maya Art**
3 cr. Undergraduate/Graduate.
Ancient Maya art, with emphasis on the Classic Period florescence, its development, and major themes.
**Prerequisites:** jr st.
**Last Taught:** Fall 2012, Spring 2010, Spring 2007, Spring 2004.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 480 Chinese Painting**
3 cr. Undergraduate/Graduate.
Major developments in Chinese painting from 6 B.C.E. to the modern period, including landscapes, figures, flowers-and-birds, and calligraphy.
**Prerequisites:** jr st.
**Last Taught:** Spring 2018, Fall 2012, Spring 2010, Fall 2008.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 481 Topics in Chinese Art:**
1-3 cr. Undergraduate/Graduate.
In-depth examination of important themes, genres, or subgroups in the evolution of Chinese art.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Spring 2016, Fall 2011, Fall 2010, Spring 2007.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 482 Topics in Non-Western Art:**
3 cr. Undergraduate/Graduate.
In-depth examination of major themes, genres, or regional sub-groups within the field of non-western art.
**Prerequisites:** jr st.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**Last Taught:** Spring 2015, Fall 2011, Spring 2010, Spring 2009.
**Current Offerings:** http://uwm.edu/schedule

**ARTHIST 489 Internship in Art History, Upper Division**
1-6 cr. Undergraduate.
Application of advanced principles of art history in a business, organizational, educational, political, or other appropriate setting.
**Prerequisites:** jr st; 300-level or above course in ArtHist; 2.25 gpa; cons supervising faculty member.
**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
**Last Taught:** Spring 2013, Fall 2012, Summer 2012, Fall 2011.
**Current Offerings:** http://uwm.edu/schedule
ARTHIST 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ARTHIST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ARTHIST 501 Colloquium in Method and Theory:
3 cr. Undergraduate.
An undergraduate research seminar in various aspects of the history of
art, with papers presented by students.
Prerequisites: jr st; declared Art History major; cons instr.
Course Rules: Satisfies L&S research req. May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule

ARTHIST 691 Art Museum Internship
3 cr. Undergraduate.
Supervised practical experience in local art museums arranged on
individual basis. Introduction to curatorial and/or administrative duties;
'hands on' treatment of works of art.
Prerequisites: jr st; at least 6 cr ArtHist at the 300 level or above & cons
internship coord.
Course Rules: May be retaken for 3 additional cr.
Current Offerings: http://uwm.edu/schedule

ARTHIST 699 Independent Study
1-3 cr. Undergraduate.
Advanced independent work under the supervision of an ArtHist faculty
or instructional academic staff member. Students must submit a study
proposal. For more information, consult dept chair.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ARTHIST 700 Proseminar in Art History
3 cr. Graduate.
Historiography and methodology of art history.
Prerequisites: grad st or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ARTHIST 703 Introduction to Art Museum Studies I
3 cr. Graduate.
History and theory of the art museum; emphasis on the discourse of the
modern museum, and selected issues in contemporary exhibition and
display.
Prerequisites: grad st.
Course Rules: Course fee may be assessed.
Last Taught: Spring 2017, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ARTHIST 704 Introduction to Art Museum Studies II
3 cr. Graduate.
Methodologies and technologies of art museum work, including
collection management, exhibition organization, catalogue production,
and educational programming. Course fee may be assessed.
Prerequisites: grad st; ArtHist 703(P).
Current Offerings: http://uwm.edu/schedule

ARTHIST 710 Colloquium in Ancient Art and Archaeology:
3 cr. Graduate.
Directed readings and discussions on topics in the arts of greece,
rome, egypt, or the near east. Emphasis on scholarly source materials
and methodological approaches. Specific topic and any additional
prerequisites will be announced in the schedule of classes each time the
course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2013, Fall 2010, Fall 2006.
Current Offerings: http://uwm.edu/schedule

ARTHIST 720 Colloquium in Medieval Art/Architecture:
3 cr. Graduate.
Directed readings and discussions on topics in early christian byzantine
and western medieval art and architecture. Emphasis on scholarly
source material and methodological approaches. Specific topic and any
additional prerequisites will be announced in the schedule of classes each
time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ARTHIST 730 Colloquium in Renaissance/Baroque Art/Architecture:
3 cr. Graduate.
Directed readings and discussions on topics in the arts of the
renaisance and/or baroque periods. Emphasis on scholarly source
material and methodology. Specific topic and any additional prerequisites
will be announced in the schedule of classes each time the course is
offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
ARThIST 740 Colloquium in Latin American Art:
3 cr. Graduate.
Directed readings, critical discussions, and short written reports on topics in Latin American art, 1492 to the present. Emphasis on scholarly sources and methodological approaches.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2007.
Current Offerings: http://uwm.edu/schedule

ARThIST 750 Colloquium in Ancient Art:
3 cr. Graduate.
Directed readings, critical discussions, and short written reports on topics in ancient art. Emphasis on scholarly sources and methodological approaches. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2007.
Current Offerings: http://uwm.edu/schedule

ARThIST 760 Colloquium in Modern Art/Architecture:
3 cr. Graduate.
Directed readings, critical discussions, and short written reports on topics in modern art/architecture 1800-present. Emphasis on scholarly sources and methodological approaches. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2007.
Current Offerings: http://uwm.edu/schedule

ARThIST 761 Colloquium in Film History, Theory, Criticism:
3 cr. Graduate.
Readings in contemporary historiography and theory methodologies. Application of criticism to films and periods. 12 essays, 1 paper. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2015, Fall 2012, Spring 2010, Fall 1999.
Current Offerings: http://uwm.edu/schedule

ARThIST 770 Colloquium in Non-Western Art:
3 cr. Graduate.
Problems in the traditional arts of pre-Columbian America, Africa, and Oceania. Develops methodological skills in art history through the exploration of art in non-western societies. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2012, Spring 2011, Fall 2010, Spring 2009.
Current Offerings: http://uwm.edu/schedule

ARThIST 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

ARThIST 890 Independent Field Study
1-3 cr. Graduate.
Independent research in local archives, on local monuments, or on archaeological expeditions.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2016, Fall 2012, Spring 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ARThIST 891 Art Museum Internship
3 cr. Graduate.
Supervised practical experience in local art museums arranged on individual basis. Introduction to curatorial and/or administrative duties; 'hands on' treatment of works of art.
Prerequisites: grad st; at least 6 cr in ArtHist at grad level & cons internship coord.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ARThIST 901 Problems in Art History:
3 cr. Graduate.
Selected problems in art historical scholarship. Students will research scholarly problems in depth and present the results in both oral and written form. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st; one 700-level colloquium in ArtHist & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ARThIST 990 Thesis Research
3-6 cr. Graduate.
Prerequisites: grad st & writ cons grad advisor or instr.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ARThIST 991 Thesis Exhibition
3-6 cr. Graduate.
Organization and installation of an art exhibition.
Prerequisites: grad st; ArtHist 700(P); writ cons grad advisor or instr.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ARThIST 999 Reading and Research
1-3 cr. Graduate.
Advanced independent research. For information, consult department chair.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2016, Fall 2015, Summer 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule
Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Aschenbrenner</td>
<td>Senior Lecturer</td>
<td>MA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jocelyn Boor</td>
<td>Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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</tr>
<tr>
<td>Sarah Anne Carter</td>
<td>Visiting Staff Prof</td>
<td>PhD</td>
<td>Harvard University</td>
<td></td>
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</tr>
<tr>
<td>Derek Counts</td>
<td>Professor</td>
<td>PhD</td>
<td>Brown University</td>
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<tr>
<td>Jennifer Johung</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Richard Leson</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
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</tr>
<tr>
<td>Sarah Schaefer</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Columbia University</td>
<td></td>
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</tr>
<tr>
<td>Tanya Tiffany</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
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</tr>
<tr>
<td>Ying Wang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Pittsburgh</td>
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</tr>
<tr>
<td>Katharine (Kay) Wells</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
<td></td>
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</tr>
</tbody>
</table>

Contact Information

Director of Undergraduate Studies
Art History Department Office, Mitchell Hall, Room 151

Phone: (414) 229-4330

Art History and Criticism, Minor

Students interested in examining history through the lens of paintings, sculptures, film, architecture, graphics, and decorative arts will find Art History to be an ideal major. Throughout time, humans have expressed their emotions, beliefs, and ideals through these mediums, and today's students can use these objects to understand culture, society, politics, economies, and religions and apply the lessons learned to modern issues.

What can you do with an Art History minor? The answer turns out to be quite a bit.

Alumni follow a variety of career paths, and their skills are applicable to many types of jobs. Popular careers include teacher or professor, museum or gallery curator, art dealer, arts administrator, art appraiser, and historic preservation consultant, some of which require education beyond a bachelor's degree. Other students choose to branch out into related fields that require a broad knowledge of culture and communication such as journalism, law, marketing, administration, interior design, photography, library science, and cultural/heritage studies.

Much of what happens after college depends on what a student does during college. A student who wants to work in a gallery should ensure the s/he gains hands-on experience during college through internships, volunteer work, and part-time jobs. Experiential learning is critical - it grounds what a student learns in the classroom with the real world.

Students who are more interested in the production of art (such as becoming a film maker or artist) should explore the majors offered through UWM's Peck School of the Arts (p. 82).

Requirements

Students should declare the minor in art history after they have completed 15 degree credits, and before they have earned 75 degree credits. A minimum 2.500 GPA must be maintained in all Art History courses attempted at UWM. In addition, students must attain a 2.500 GPA in all minor credits attempted, including any transfer work. It requires at least 18 credits in the department, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
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<tr>
<td>ARTHIST 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
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<tr>
<td>Select 9 credits in ARTHIST at the 300 level or above in residence at UWM</td>
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<tr>
<td>Select 3 additional credits in ARTHIST</td>
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<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact Senior Lecturer Michael Aschenbrenner, aschenb3@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/arthistory/undergraduate/

Art History, BA

Students interested in examining history through the lens of paintings, sculptures, film, architecture, graphics, and decorative arts will find Art History to be an ideal major. Throughout time, humans have expressed their emotions, beliefs, and ideals through these mediums, and today's students can use these objects to understand culture, society, politics, economies, and religions and apply the lessons learned to modern issues.

What can you do with an Art History major? The answer turns out to be quite a bit. Art History majors follow a variety of career paths, and their skills are applicable to many types of jobs. Popular careers include teacher or professor, museum or gallery curator, art dealer, arts administrator, art appraiser, and historic preservation consultant, some of which require education beyond a bachelor's degree. Other students choose to branch out into related fields that require a broad knowledge of culture and communication such as journalism, law, marketing, administration, interior design, photography, library science, and cultural/heritage studies. Much of what happens after college depends on what a student does during college. A student who wants to work in a gallery should ensure the s/he gains hands-on experience during college through internships, volunteer work, and part-time jobs. Experiential learning is critical - it grounds what a student learns in the classroom with the real world.
Students who are more interested in the production of art (such as becoming a film maker or artist) should explore the majors offered through UWM’s Peck School of the Arts (p. 82).

Requirements
Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
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<tr>
<td></td>
<td><strong>Part A</strong></td>
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<tr>
<td></td>
<td>ENGLISH 102</td>
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<tr>
<td></td>
<td>College Writing and Research (or equivalent)</td>
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<td></td>
<td><strong>Part B</strong></td>
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<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
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<tr>
<td></td>
<td><strong>Part A</strong></td>
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<tr>
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<td>Select one of the following:</td>
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<tr>
<td></td>
<td>MATH 103</td>
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<tr>
<td></td>
<td>Contemporary Applications of Mathematics</td>
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<td></td>
<td>MATH 105</td>
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<tr>
<td></td>
<td>Introduction to College Algebra</td>
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<td></td>
<td>MATH 108</td>
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<tr>
<td></td>
<td>Algebraic Literacy II</td>
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<td></td>
<td>Or equivalent course</td>
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<td></td>
<td><strong>Part B</strong></td>
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<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td><strong>Arts</strong></td>
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<tr>
<td></td>
<td>Select 3 credits</td>
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<tr>
<td></td>
<td><strong>Humanities</strong></td>
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<td>Select 6 credits</td>
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<td></td>
<td><strong>Social Sciences</strong></td>
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<td>Select 6 credits</td>
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<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
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<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
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<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
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<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
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<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
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<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
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<td></td>
<td>Or equivalent</td>
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<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
</tbody>
</table>

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement.

College of Letters & Science Requirements
I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
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</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### Code | Title | Credits
--- | --- | ---
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language) | 0-18
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language) | 0-18

IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

### Code | Title | Credits
--- | --- | ---
Completed in one of the following ways:| 9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above | 9
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas. | 9
Complete 9 credits in combination of the two options above. | 9

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

### Code | Title | Credits
--- | --- | ---
Arts | Select 3 credits | 3
Humanities | Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. | 12
Social Sciences | Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. | 12
Natural Sciences | | 

VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

### Art History Major Requirements

The major in art history and criticism consists of 30 credits in the department.

### Code | Title | Credits
--- | --- | ---
**Required** | | 
ARTHIST 101 | Ancient and Medieval Art and Architecture | 3
ARTHIST 102 | Renaissance to Modern Art and Architecture | 3
**Additional Requirements** | | 
The following 3 credits are strongly advised: | 3
ARTHIST 104 | African, New World and Oceanic Art and Architecture | 3
| or ARTHIST 105 | Asian Art and Architecture | 3
L&S research requirement | ARTHIST 501 | Colloquium in Method and Theory. | 3
**Major Option** | | 
Select one of the following options: | 24
Option A: Standard Major | | 
Option B: Broad Major | | 
Total Credits | | 36

1 Taken during their junior or senior year with permission from the instructor.
Major Options
A minimum 2.500 GPA is required in all ArtHist courses attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. Fifteen credits at the 300 level or above must be taken in residence at UWM.

Option A: Standard Major
This option is recommended for students who are interested in obtaining a well-balanced approach to the study of art history. It provides an introduction to most major areas of inquiry in art history and to different scholarly approaches to study in this field. It is recommended especially for students who wish to continue into graduate studies in art history and to pursue careers in college teaching or museum or gallery work.

1. Distribution requirement, 15 credits. At least 3 credits each in five of the following areas: Ancient, Medieval, Renaissance-Baroque, 19th-20th Century, Non-Western, and Film. At least 9 of the 15 credits must be at the 300 level or above.
2. Electives, 9 credits. At least 6 of these 9 credits must be at the 300 level or above.
3. Language requirement. Reading ability in at least one foreign language, preferably French or German, to be demonstrated either by taking two years of college-level language with grades of B or better or by taking and passing a reading exam administered by the Art History Department. Students planning to go to graduate school are advised that most graduate schools require PhD candidates to demonstrate reading knowledge of both French and German. Other languages such as Italian, Spanish, Dutch, Greek, or Latin also may be required, depending on a student's field of specialization.

Option B: Broad Major
This option is designed for students who wish to tailor their own programs of study to pursue specific individual interests in art history, to tie in with studies in other fields (e.g., double majors), or for personal enrichment. It requires at least 24 credits of the student's choice in ArtHist courses beyond ARTHIST 101 and ARTHIST 102, of which at least 15 must be at the 300 level or above.

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major
Art history majors who meet the following criteria are awarded honors in the major:

1. 3.500 cumulative GPA in all UWM graded credits;
2. 3.500 GPA in all credits that count toward the major;
3. 3.500 GPA in all advanced credits that count toward the major;
4. Completion of one of the following:
   • Six credits of French, German, Italian, or Spanish at the 200 level or above with grades of B or better (equivalent level coursework in another language may be substituted with faculty approval); or
   • The Art History Department's French or German translation exam with passing grade.
5. Completion of ARTHIST 501

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
**Art History, MA**

The Department of Art History offers a graduate program leading to a Master of Arts degree. The graduate program prepares students for either a career in the arts or for Ph.D.-level work at other universities. Course offerings cover the full range of western art, including film studies and electronic arts. Non-western courses in Pre-Columbian, Asian, Islamic, and African art are also offered.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. A minimum of 15 credits in Art History.
2. Submission of scores on the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
3. Two letters of recommendation from persons familiar with applicant’s academic or professional activities and potential.
4. A writing sample to the Department of Art History, for example, an undergraduate art historical term paper.
5. Strongly recommended, though not required: background in languages, history or classics. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

**Credits and Courses**

**Thesis Track: MA in Art History with an Emphasis on Methods and Criticism**

Minimum degree requirement is 30 graduate credits in Art History, of which a minimum of 18 credits must be 700- to 900-level courses. The 18 credits must include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 700</td>
<td>Proseminar in Art History *</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 891</td>
<td>Art Museum Internship</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6 credits of ArtHist 991 Thesis Research</td>
<td></td>
</tr>
</tbody>
</table>

1. Must be taken in the student’s first fall semester.

2. These courses do not count toward the overall 30 credit requirement for the degree.

Under special circumstances, 3 credits in 700- to 900-level work may be substituted for 3 of the 6 credits of thesis research. In addition, students may take a maximum of 6 credits of independent research (890, 891 and/or 999); however, these credits may not be taken in the first 6 credits of graduate work in the Department, and not until all deficiencies (if any) have been satisfied. Furthermore, they may not be counted toward the required 18 credits of 700- to 900-level courses. They will count, however, toward the overall number of credits needed to graduate.

Of the total 30 credits, 12 credits must be distributed across three of the following four areas: Ancient-Medieval; Renaissance-Baroque; Modern (1750-the Present including Film); and non-Western. At least 9 of these credits must be taken in courses numbered 700 or above.

The following courses may not be used to satisfy the distribution requirement, although they will count toward the overall number of credits needed to graduate:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 351</td>
<td>English Art: 1550-1850</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 353</td>
<td>American Art: Colonial Period - 1870</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 355</td>
<td>American Folk Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 459</td>
<td>American Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 703</td>
<td>Introduction to Art Museum Studies I</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 704</td>
<td>Introduction to Art Museum Studies II</td>
<td>3</td>
</tr>
</tbody>
</table>

Upon petition to the director of graduate studies, a student may be permitted to take up to 6 credits in appropriate areas outside Art History (e.g., anthropology, literature, history, music history, philosophy, film).

**Thesis**

In addition to completing all the coursework required for the degree, the student must write a thesis on a subject selected in consultation with the advisor. This study must demonstrate the student’s ability to organize material and her/his familiarity with relevant research methods and art-historical literature. The student must pass an oral defense of the thesis.

**Curatorial Track: MA in Art History with an Emphasis on Museums and Curatorial Practice**

Minimum degree requirement is 30 graduate credits in Art History, of which a minimum of 18 credits must be 700- to 900-level courses. The 18 credits must include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 700</td>
<td>Proseminar in Art History *</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 891</td>
<td>Art Museum Internship</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6 credits of ArtHist 991 Thesis Exhibition</td>
<td></td>
</tr>
</tbody>
</table>

* Must be taken in the student’s first fall semester.

The following courses do not count toward the required 18 credits above the 700 level, but they are required for the 30 credits toward the degree.
Under special circumstances, 3 credits in 700- to 900-level work may be substituted for 3 of the 6 credits of thesis research. In addition, students may take a maximum of 6 credits of independent research (890, 891 and/or 999); however, these credits may not be taken in the first 6 credits of graduate work in the Department, and not until all deficiencies (if any) have been satisfied. Furthermore, they may not be counted toward the required 18 credits of 700- to 900-level courses. They will count, however, toward the overall number of credits needed to graduate. All students must take the Proseminar in Art History (ArtHist 700) in their first fall semester.

Of the total 30 credits, 12 credits must be distributed across three of the following four areas: Ancient-Medieval; Renaissance-Baroque; Modern (1750-the Present including Film); and non-Western. At least 9 of these credits must be taken in courses numbered 700 or above. The following courses may not be used to satisfy the distribution requirement, although they will count toward the overall number of credits needed to graduate:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 351</td>
<td>English Art: 1550-1850</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 353</td>
<td>American Art: Colonial Period - 1870</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 355</td>
<td>American Folk Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 459</td>
<td>American Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

Upon petition to the graduate advisor, a student may be permitted to take up to 6 credits in appropriate areas outside Art History (e.g., anthropology, literature, history, music history, philosophy, film).

**Exhibition**

The student on this curatorial track must also organize an exhibition accompanied by a scholarly catalog on a subject selected in consultation with the advisor. This exhibition must demonstrate the student's ability to organize material and her/his familiarity with relevant research methods and art historical literature. The exhibition is considered the equivalent of a formal thesis and the accompanying written work must be submitted to the Graduate School in appropriate format.

**Program Requirements**

**Major Professor as Advisor**

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

**Language Requirement**

Students must demonstrate a reading knowledge of one art historical language, e.g. French, German, Italian, Spanish or other language as appropriate. Students must take the departmental reading exam in the language of their choice at least once by the time they have completed 9 credits. If they do not pass the exam on the first attempt, they will be expected to enroll in an appropriate language course. Students may not enroll in thesis research (990) unless they have passed the language examination.

**Thesis or Exhibition**

The student must either write a thesis or organize an exhibition accompanied by a scholarly catalog on a subject selected in consultation with the advisor. This study or exhibition must demonstrate the student's ability to organize material and familiarity with research methods and art historical literature pertinent to the student's topic and area of interest. The exhibition is considered the equivalent of a formal thesis and the accompanying written work must be submitted to the Graduate School in appropriate format.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment. It is expected that a full-time student will normally complete all of the requirements for the degree within two years.
ASIAN STUDIES, UNDERGRADUATE CERTIFICATE

The Asian Studies Undergraduate Certificate combines the study of Asian languages, culture, politics, and history, and is particularly well-suited to majors from business, global studies, international studies, journalism and advertising, the visual and performing arts, communication, economics, the natural sciences, political science, or any discipline that involves interactions with the Asian world.

Students who obtain this certificate are better equipped to work in global industry and business, international politics, technology, tourism, and media because they’re able to better analyze Asian societies and act with cultural awareness and understanding. Students can choose to obtain the certificate with or without an Asian language focus, with the latter requiring more language classes. The certificate is interdisciplinary with coursework from economics, history, comparative literature, anthropology, political science, sociology, and art history.

Eligibility

The Undergraduate Certificate in Asian Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject area.

Requirements

Students enrolling in the Asian Studies Certificate Program are required to earn a minimum of 18 credits, at least 9 of which must be completed at UWM. Of the 18 credits, at least 12 credits must be taken in courses in the College of Letters and Science, and 9 of those must be at the upper level (numbered 300 and above). Of the required credits, at least 9 must be at the 300 level or above, of which 6 credits must be non-language courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.700 or above in all courses counting toward the certificate. A maximum of 6 credits in a combination of approved independent study and/or relevant Asia-focused courses from other schools and colleges may count toward the requirements of the program. All students are required to complete an exit survey before the certificate is awarded.

To earn the Certificate in Asian Studies, students must fulfill the requirements for one of two tracks:

- **Track A** (22 credits): 6 courses, including 2 courses in a single Asian language (10 crs.), 1 gateway course (3 crs.), and 3 upper-level electives (9 crs.); or
- **Track B** (18-22 credits): 6 courses, including 1 gateway course (3 crs.) with the remaining courses chosen from the list of electives. Students must take a minimum of 3 upper-level courses (9 crs.), and no language courses are required. However, as electives, students may choose to take a course in any single Asian language or 2 courses (up to 10 crs.) in any combination of Chinese, Japanese, or Korean.

Students majoring or minoring in Chinese or Japanese may only earn the Asian Studies Certificate through Track B. Interested students should contact the Asian Studies Program Advisor as soon as they decide to pursue the certificate. The advisor’s role is to help the student design a program of study from among the available courses and to guide the student in completing that program.

### Electives

The following courses have been approved for the Certificate in Asian Studies:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 326</td>
<td>Peoples and Cultures of South Asia</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 105</td>
<td>Asian Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 192</td>
<td>First-Year Seminar (Images and Meaning in Chinese Art or other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 281</td>
<td>Modern and Contemporary Chinese Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 308</td>
<td>Film Styles: (Asian Cinema and Spiritual Practices, Meaning in Chinese Art, or other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 381</td>
<td>Honors Seminar: (Images of Japan’s Floating World or other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 383</td>
<td>Japanese Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 386</td>
<td>Art, Ritual, and Ethnicity of China</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 383</td>
<td>Japanese Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 480</td>
<td>Chinese Painting</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 481</td>
<td>Topics in Chinese Art:</td>
<td>1-3</td>
</tr>
<tr>
<td>ARTHIST 482</td>
<td>Topics in Non-Western Art: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 101</td>
<td>First Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 102</td>
<td>Second Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 150</td>
<td>Contemporary Chinese Society and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 160</td>
<td>A Taste of China: Learning Chinese Culture and Society through Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 200</td>
<td>Chinese Calligraphy</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 201</td>
<td>Third Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>CHINESE 202</td>
<td>Fourth Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 330</td>
<td>Chinese Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 343</td>
<td>Chinese Martial Arts Fiction</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (Land Society: Chinese Literature Before the 20th Century or other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 362</td>
<td>Transnational Asian Cinemas:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 363</td>
<td>Chinese Literature in the Global Context:</td>
<td>3</td>
</tr>
<tr>
<td>ECON 193</td>
<td>First-Year Seminar: (Economics of Asia or other appropriate subtitles) if not selected above</td>
<td>3</td>
</tr>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development (with appropriate emphasis on Asia)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (Hong Kong Cinema or other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 507</td>
<td>Studies in Literature, 1900 to the Present: (Representations of Self in Japanese and Western Literature or other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography (with appropriate emphasis on Asia)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600 (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 176</td>
<td>East Asian Civilization Since 1600 (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 284</td>
<td>Buddhism Across Asia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 286</td>
<td>The Korean War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought: (Introduction to Buddhist Thought or other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 372</td>
<td>Topics in Global History: (Global History of the Korean War or other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 377</td>
<td>Modern China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 394</td>
<td>History of Japan to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
<td>3</td>
</tr>
<tr>
<td>HMONG 107</td>
<td>First-Semester Hmong Literacy</td>
<td>3</td>
</tr>
<tr>
<td>HIST 402</td>
<td>Topics in Asian History:</td>
<td>3</td>
</tr>
<tr>
<td>HMONG 108</td>
<td>Second-Semester Hmong Literacy</td>
<td>3</td>
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<tr>
<td>HMONG 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life</td>
<td>3</td>
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<tr>
<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>JAPAN 101</td>
<td>First Semester Japanese</td>
<td>5</td>
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<tr>
<td>JAPAN 102</td>
<td>Second Semester Japanese</td>
<td>5</td>
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<tr>
<td>JAPAN 110</td>
<td>Japanese Popular Culture</td>
<td>3</td>
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<tr>
<td>JAPAN 200</td>
<td>Japanese Culture and Its Effect on Language</td>
<td>3</td>
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<tr>
<td>JAPAN 201</td>
<td>Third-Semester Japanese</td>
<td>5</td>
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<tr>
<td>JAPAN 202</td>
<td>Fourth-Semester Japanese</td>
<td>5</td>
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<tr>
<td>JAPAN 220</td>
<td>Introduction to Japanese Food Studies</td>
<td>3</td>
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<tr>
<td>JAPAN 301</td>
<td>Fifth Semester Japanese</td>
<td>4</td>
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<tr>
<td>JAPAN 302</td>
<td>Sixth Semester Japanese</td>
<td>4</td>
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<tr>
<td>JAPAN 330</td>
<td>Japanese Language and Culture</td>
<td>3</td>
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<tr>
<td>JAPAN 331</td>
<td>Reading Japanese Short Stories</td>
<td>3</td>
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<tr>
<td>JAPAN 351</td>
<td>Japanese Performance Traditions</td>
<td>3</td>
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<tr>
<td>JAPAN 361</td>
<td>Translating Japanese Media</td>
<td>3</td>
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<tr>
<td>JAPAN 401</td>
<td>Seventh Semester Japanese</td>
<td>4</td>
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<tr>
<td>JAPAN 402</td>
<td>Eighth Semester Japanese</td>
<td>4</td>
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<tr>
<td>JAPAN 416</td>
<td>Introduction to Translation: Japanese to English</td>
<td>3</td>
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<tr>
<td>JAPAN 441</td>
<td>Business Japanese I</td>
<td>3</td>
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<tr>
<td>KOREAN 101</td>
<td>First-Semester Korean</td>
<td>5</td>
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<tr>
<td>KOREAN 102</td>
<td>Second-Semester Korean</td>
<td>5</td>
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<tr>
<td>KOREAN 201</td>
<td>Third Semester Korean</td>
<td>5</td>
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<tr>
<td>KOREAN 202</td>
<td>Fourth Semester Korean</td>
<td>5</td>
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<tr>
<td>KOREAN 221</td>
<td>Korean Culture and Society</td>
<td>3</td>
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<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions (if not selected above)</td>
<td>3</td>
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<tr>
<td>PHILOS 475</td>
<td>Special Topics in Indian Religious Thought:</td>
<td>3</td>
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<tr>
<td>POL SCI 314</td>
<td>Chinese Politics and Foreign Policy</td>
<td>3</td>
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<tr>
<td>POL SCI 341</td>
<td>Politics and Markets in Pacific-Rim Countries: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>POL SCI 343</td>
<td>Asian International Relations</td>
<td>3</td>
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<tr>
<td>WGS 500</td>
<td>Advanced Social Science Seminar in Women's and Gender Studies: (Gender in Global Asia or other appropriate subtitles)</td>
<td>3</td>
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</tbody>
</table>

**Exit Survey**

All students are required to complete an exit survey upon completion of their required coursework. The survey allows certificate students to reflect on their experiences while providing important information to help improve the program. The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are
about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

Please note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

Contact Information
Current Students contact Associate Professor Nan Kim, ynkp@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Asian+Studies
BIOLOGICAL SCIENCES

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology.

Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A degree in Biological Sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

Field Stations

Pigeon Lake Field Station is a natural laboratory sponsored by the 14 campuses of the University of Wisconsin System, located in the Chequamegon National Forest, about 30 miles from Lake Superior in northern Wisconsin's Bayfield County. Pigeon Lake Field Station offers summer programs in a variety of disciplines, including biology. Work completed at Pigeon Lake is credited as resident study by UWM. For additional information, contact the Biological Sciences Department office.

The UWM Field Station is an area of almost 2,500 acres devoted to the study of natural history and biology. Located about 25 miles north of campus on the Cedarburg Bog in the Town of Saukville, the station includes a wide variety of natural areas ranging from old-growth forest to acid bog and several lakes. Many biological sciences courses use the Field Station for instruction and to provide hands-on research opportunities. The Field Station provides internship and independent study opportunities for biology students; it also offers short courses for credit through the department. For additional information, contact the Biological Sciences Department office.

Programs

- Biological Sciences, BA (p. 1065)
- Biological Sciences, BS (p. 1070)
- Biological Sciences, Minor (p. 1075)
- Biological Sciences, MS (p. 1075)
- Biological Sciences, PhD (p. 1077)
- Microbiology, BA (p. 1078)
- Microbiology, BS (p. 1083)

Biological Sciences Courses

BIO SCI 100 Survey of Zoology
3 cr. Undergraduate.
Surveys of the animal kingdom, with emphasis on the importance of animals to humans. Study of phyla as represented by types, classification, structure, and life histories. Introduction to cytology, genetics, evolution, and ornithology. 2 hrs lec, 2 hrs lab.
Prerequisites: none.
Course Rules: Does not carry cr toward bio sci major.
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 101 General Survey of Microbiology
4 cr. Undergraduate.
The nature and activities of microorganisms, including surveys of bacteria, fungi, viruses, immunology, and disease applications. 3 hrs lec, 3 hrs lab.
Prerequisites: Chem 101(P) or 102(P).
Course Rules: Intended primarily for nursing students. Does not carry cr toward bio sci major.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

BIO SCI 102 Elements of Biology
3 cr. Undergraduate.
Organization and function of living systems. 2 hrs lec, 2 hrs lab.
Prerequisites: none.
Course Rules: Intended for non-majors; does not carry cr toward bio sci major.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

BIO SCI 103 Topics in Modern Biology
3 cr. Undergraduate.
How biological factors, processes, and reactions affect living systems. Emphasis on current issues in biology such as genetic engineering, bioethics, and population concerns.
Prerequisites: none, except as may be required for specific topics.
Course Rules: Intended for non-majors; does not carry cr toward bio sci major. May be retaken w/chg in topic to 9 cr max. Students w/cr in Bio Sci 226 or 250 may not take 103 w/those topics.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

BIO SCI 104 Plants in Today’s World
3 cr. Undergraduate.
Introduction to major plant groups; principles of structure and function, ecology, and gardening. 2 hrs lec, 2 hrs lab.
Prerequisites: none.
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
BIO SCI 150 Foundations of Biological Sciences I
4 cr. Undergraduate.
Fundamental principles of biology (ecology, evolution, genetics, molecular and cell biology) integrated through evolutionary framework. First of two-course sequence for bio sci, other science majors. 3 hrs lec, 3 hrs lab. Open to freshmen.
Prerequisites: Chem 100(P) or 102(P) or conc reg.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

BIO SCI 152 Foundations of Biological Sciences II
4 cr. Undergraduate.
Organismal diversity, emphasizing structural and functional relationships in microorganisms, plants, and animals. Second of a two-course sequence for Bio Sci & other natural science majors. 3 hr lec, 3 hr lab.
Prerequisites: grade above C- in Bio Sci 150(P).
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

BIO SCI 194 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Last Taught: Fall 2015, Fall 2014, Fall 2012, Fall 2009.
Current Offerings: http://uwm.edu/schedule

BIO SCI 201 Human Structure and Function
3 cr. Undergraduate.
Brief introduction to human anatomy and physiology. 2 hrs lec; 3 hrs lab.
Prerequisites: none.
General Education Requirements: QLB, NS+
Current Offerings: http://uwm.edu/schedule

BIO SCI 202 Anatomy and Physiology I
4 cr. Undergraduate.
Anatomy and physiology of the human body including cell, tissues, skeletal, muscular, and nervous systems. 3 hrs lec, 3 hrs lab.
Prerequisites: none.
Course Rules: Required of students in nursing, med tech & med rec admin. Cannot be combined with Bio Sci 150 & 203 for more than 9 cr toward the bio sci major.
Current Offerings: http://uwm.edu/schedule

BIO SCI 203 Anatomy and Physiology II
4 cr. Undergraduate.
Anatomy and physiology of the human body including cardiovascular, respiratory, digestive, excretory, endocrine, and reproductive systems. 3 hrs lec, 3 hrs lab.
Prerequisites: C or better in either Bio Sci 202(P) or 315(P).
Course Rules: Cannot be combined with Bio Sci 150 & 202 for more than a total of 9 cr toward bio sci major. Cell & Molec Bio.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

BIO SCI 206 Biology of Women
3 cr. Undergraduate.
An anatomical and physiological view of the human female life cycle with emphasis on women's health.
Prerequisites: course in biology.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

BIO SCI 210 Introduction to Fermentation Biology
3 cr. Undergraduate.
Principles and microbiology of fermentation in the production of food and beverages.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

BIO SCI 289 Internship in Biological Sciences, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of biological sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Bio Sci; 2.50 gpa; cons supervising faculty member.
Course Rules: Specific topics may satisfy major area req; consult dept. One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major.
Last Taught: Spring 2016, Fall 2015, Summer 2015, Fall 2010.
Current Offerings: http://uwm.edu/schedule

BIO SCI 290 Independent Study and Research:
1-3 cr. Undergraduate.
Directed library or laboratory/field research in biological sciences.
Prerequisites: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Specific topics may satisfy major area req; consult dept. May be retaken to 6 cr max. Does not count as a Bio Sci lab course.
Last Taught: Spring 2018, Spring 2016, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

BIO SCI 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs and srs.
Current Offerings: http://uwm.edu/schedule
BIO SCI 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course
work level, content, and credits are determined and/or in specially-
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Spring 2012.
Current Offerings: http://uwm.edu/schedule

BIO SCI 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Specific topics may satisfy major area req; consult dept.
May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

BIO SCI 301 General Ecology
4 cr. Undergraduate.
Complex interrelationships between organisms and their environment.
Physiological and behavioral adaptations, populations, biotic
communities, ecosystems. 3 hrs lec, 3 hrs lab, field work.
Prerequisites: grade of C or better in Bio Sci 152(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 305 Human Parasitology
4 cr. Undergraduate.
Biology, diagnosis and epidemiology of human parasitic diseases. For life
science and clinical lab science students interested in public health. 3 hrs
lec, 3 hrs lab.
Prerequisites: jr st; Bio Sci 310(C) or Bio Sci 325(C) or cons instr.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

BIO SCI 310 General Ecology
4 cr. Undergraduate.
Complex interrelationships between organisms and their environment.
Physiological and behavioral adaptations, populations, biotic
communities, ecosystems. 3 hrs lec, 3 hrs lab, field work.
Prerequisites: grade of C or better in Bio Sci 152(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 315 Cell Biology
3 cr. Undergraduate.
Cell structure and function at the molecular level. Flow of material,
energy, and information within prokaryotic and eukaryotic cells. 3 hrs lec.
Prerequisites: grades of C or better in both Bio Sci 152(P) & Chem 104(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 316 Laboratory in Genetics and Cell Biology
2 cr. Undergraduate.
Laboratory studies in genetics and cell biology using microorganisms,
plants, and animals. Hypothesis testing, data collection, computer and
literature analyses, and writing of scientific papers. 1 hr dis, 3 hr lab.
Prerequisites: grades of C or better in both Bio Sci 152(P) & Chem 104(P); Bio
Sci 315(C) or 325(C).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 317 Cell & Molec Bio: Microbio.
2 cr. Undergraduate.
Cell and molecular biology of microorganisms. 3 hrs lec, 3 hrs lab.
Prerequisites: Bio Sci 152(P) & 315(C), or Chem 104(P).
Course Rules: Cell & Molec Bio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 318 Animal Physiology
3 cr. Undergraduate.
Structure and function of the vertebrate neuromuscular system, with
special emphasis on the nervous system. 3 hrs lec, 3 hrs lab.
Prerequisites: Bio Sci 152(P).
Course Rules: Field trip schedules (if any) and fees will be announced in
class.
Current Offerings: http://uwm.edu/schedule

BIO SCI 325 Genetics
4 cr. Undergraduate.
Principles of inheritance. Fundamental concepts of genetics. 3 hrs lec, 2
hrs dis.
Prerequisites: grade of C or better in Bio Sci 150(P); Bio Sci 152(C) or
203(P); Chem 104(C).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 330 Developmental Biology
3 cr. Undergraduate.
Development of living organisms at the molecular, cellular, and
organismal levels. 3 hrs lec.
Prerequisites: grade of C or better in either Bio Sci 315(P) or 325(P) or
cons instr.
Course Rules: Cell & Molec Bio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 340 Animal Physiology
3 cr. Undergraduate.
Structure and function of the vertebrate neuromuscular system, with
special emphasis on the nervous system. 3 hrs lec, 3 hrs lab.
Prerequisites: Bio Sci 152(P).
Course Rules: Field trip schedules (if any) and fees will be announced in
class.
Current Offerings: http://uwm.edu/schedule

BIO SCI 345 Introduction to Neuroscience I: From Neuron to Brain
3 cr. Undergraduate.
Basic principles of neuronal systems and behavior; analysis of systems for
sensation and perception, learning and memory, language, emotion, and
motion.
Prerequisites: BioSci 152(P) & 315(C), or Psych 254(P).
Course Rules: Cell & Molec Bio. Bio Sci/Psych 354 & 355 may be taken
in either order. Bio Sci 354 & Psych 354 are jointly offered; they count as
repeats of one another.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

BIO SCI 350 Human Parasitology
4 cr. Undergraduate.
Biology, diagnosis and epidemiology of human parasitic diseases. For life
science and clinical lab science students interested in public health. 3 hrs
lec, 3 hrs lab.
Prerequisites: jr st; Bio Sci 310(C) or Bio Sci 325(C) or cons instr.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

BIO SCI 355 Introduction to Neuroscience II: From Brain to Behavior
3 cr. Undergraduate.
Basic principles of neural systems and behavior; analysis of systems for
sensation and perception, learning and memory, language, emotion, and
motion.
Prerequisites: BioSci 152(P) & 315(C), or Psych 254(P).
Sci 355 & Psych 355 are jointly offered; they count as repeats of one
another.
Current Offerings: http://uwm.edu/schedule

BIO SCI 356 Developmental Biology
3 cr. Undergraduate.
Development of living organisms at the molecular, cellular, and
organismal levels. 3 hrs lec.
Prerequisites: grade of C or better in either Bio Sci 315(P) or 325(P) or
cons instr.
Course Rules: Cell & Molec Bio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 358 Birds of Wisconsin
2 cr. Undergraduate.
Bird taxonomy and ecology, including the identification of Wisconsin
birds. 4 hrs lab & field work.
Prerequisites: jr st; Bio Sci 150(P).
Course Rules: Field trip schedules (if any) and fees will be announced in
class.
Current Offerings: http://uwm.edu/schedule

BIO SCI 360 Animal Physiology
3 cr. Undergraduate.
Structure and function of the vertebrate neuromuscular system, with
special emphasis on the nervous system. 3 hrs lec, 3 hrs lab.
Prerequisites: Bio Sci 152(P).
Course Rules: Field trip schedules (if any) and fees will be announced in
class.
Current Offerings: http://uwm.edu/schedule

BIO SCI 365 Introduction to Neuroscience I: From Neuron to Brain
3 cr. Undergraduate.
Basic principles of neuronal systems and behavior; analysis of systems for
sensation and perception, learning and memory, language, emotion, and
motion.
Prerequisites: BioSci 152(P) & 315(C), or Psych 254(P).
Sci 354 & Psych 354 are jointly offered; they count as repeats of one
another.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

BIO SCI 366 Developmental Biology
3 cr. Undergraduate.
Development of living organisms at the molecular, cellular, and
organismal levels. 3 hrs lec.
Prerequisites: grade of C or better in either Bio Sci 315(P) or 325(P) or
cons instr.
Course Rules: Cell & Molec Bio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 370 Animal Physiology
3 cr. Undergraduate.
Cellular and organ system physiology and comparative aspects of
structure-function relationships.
Prerequisites: Bio Sci 315(P) or cons instr.
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
BIO SCI 372 Animal Physiology and Neurobiology Laboratory
1 cr. Undergraduate.
Neural integration of animal cells and organ systems. Comparative experimental approach examining structure-function relationships. 3 hrs lab.
Prerequisites: Bio Sci 370(C) or Bio Sci/Psych 354(C) or 355(C).
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

BIO SCI 380 Honors Seminar:
3 cr. Undergraduate.
Selected topics in modern and traditional biology and their relation to society.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: Specific topics may satisfy major area req; consult dept. May be retaken w/chg in topic to 9 cr max.
General Education Requirements: NS
Last Taught: Spring 2018, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BIO SCI 383 General Microbiology
4 cr. Undergraduate.
Nature and properties of microorganisms. Molecular biology and genetics of bacteria and viruses. Major groups, ecological relationships, and taxonomy. 3 hrs lec, 4 hrs lab.
Prerequisites: grade of C or better in Bio Sci 325(P) or cons instr; Chem 341(C) or 343(C).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 401 Immunology
3 cr. Undergraduate/Graduate.
Fundamentals of the immune response, including cellular, physiological and molecular aspects. 3 hrs lec.
Prerequisites: jr st, grade of C or better in Bio Sci 315(P) or 325(P); Chem 341(P) or 343(P); or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BIO SCI 402 Immunological Techniques
3 cr. Undergraduate/Graduate.
Modern methods and protocols in immunology. 6 hrs lab.
Prerequisites: jr st; Bio Sci 401(P).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 405 General Virology
3 cr. Undergraduate/Graduate.
Basic course in nature of viruses: bacterial, plant, and animal. The use of viruses in model systems for molecular biology and agents of disease.
Prerequisites: jr st; Bio Sci 325(P); Bio Sci 315(P) or 383(P); Chem 501(R).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 406 Marine Biology
3 cr. Undergraduate/Graduate.
Marine biology with a strong ecological focus; physical and chemical constraints that marine environments impose on organisms; specialized adaptations of marine organisms in response. 3 hrs lec, 1 hr dis.
Prerequisites: jr st; grades of C or better in Bio Sci 152(P) & 310(C) or consent of instructor.
Last Taught: Spring 2018, Fall 2016, Fall 2014, Spring 2013.
Current Offerings: http://uwm.edu/schedule

BIO SCI 407 Plant Systematics and Evolution
3 cr. Undergraduate/Graduate.
Survey of important plant families; plant systematic theory, current techniques in data collection and analysis. 2 hrs lec/dis; 4 hrs lab.
Prerequisites: jr st; Bio Sci 152(P); Bio Sci 310(C) or 325(C); or grad st; or cons instr.
Current Offerings: http://uwm.edu/schedule

BIO SCI 430 Animal Behavior-Ethology
3 cr. Undergraduate/Graduate.
Animal behavior from the biologist's point of view, relating species-characteristic behavior to environment, internal function, ontogeny, and evolution. 3 hrs lec/dis.
Prerequisites: jr st; Bio Sci 310(P) or 316(C).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BIO SCI 440 Ecology and Evolution of Amphibians and Reptiles
3 cr. Undergraduate/Graduate.
Evolutionary history of amphibians and reptiles; their patterns of biological diversity, morphology, life history, ecology, and behavior. For upper-level undergrad and grad students. 3 hrs lec.
Prerequisites: jr st; Bio Sci 310 (P).
Current Offerings: http://uwm.edu/schedule

BIO SCI 451 Field Methods in Conservation
3 cr. Undergraduate/Graduate.
Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec/dis; 4 hrs lab.
Prerequisites: jr st; Bio Sci 310(P) or equiv or cons instr.
Course Rules: Jointly offered with & counts as repeat of CES 451.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

BIO SCI 455 Cellular, Molecular and Developmental Neurobiology
3 cr. Undergraduate/Graduate.
Nervous systems from cellular, molecular, and developmental perspectives; from basic biophysical properties of neurons to cellular and molecular basis of nervous system development and function.
Prerequisites: jr st, grade of C or better in Bio Sci 315(P); or grad st.
Current Offerings: http://uwm.edu/schedule
BIO SCI 458 Community Ecology
3 cr. Undergraduate/Graduate.
Theories and models in community ecology. Analysis of biological communities emphasizing the origin, maintenance and consequences of species diversity within local communities.
Prerequisites: jr st; Bio Sci 152(P) & 310(P) or cons instr; or grad st.
Last Taught: Spring 2018, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

BIO SCI 465 Biostatistics
3 cr. Undergraduate/Graduate.
Simple distribution; statistical inference; simple regression theory; experimental design; analysis of variance and covariance as they relate to biology.
Prerequisites: jr st; Bio Sci 150(P); Math 105(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 469 Genomic Data Analysis
2 cr. Undergraduate/Graduate.
Methods for the analysis of large-scale genomic data sets, including whole-genome association studies and transcriptomics.
Prerequisites: jr st; Bio Sci 325(P) & 465(P) or equiv; or cons instr.
Current Offerings: http://uwm.edu/schedule

BIO SCI 475 Tropical Biology:
3 cr. Undergraduate/Graduate.
Ecology and biogeography of various types of tropical forests, including required field trip to area being studied.
Prerequisites: jr st; BioSci 310(P); cons instr.
Course Rules: Required field trip at participants’ expense. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

BIO SCI 480 Ecological Genetics
3 cr. Undergraduate/Graduate.
Origin and maintenance of genetic variation within and among populations. Fundamental theory and application to ecology and conservation.
Prerequisites: jr st, Bio Sci 310(P) & 325(P); or equiv.
Course Rules: 3 hrs lec/dia.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

BIO SCI 489 Internship in Biological Sciences, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of biological sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Bio Sci; 2.50 gpa; cons supervising faculty member.
Course Rules: Specific topics may satisfy major area req; consult dept. One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major.
Current Offerings: http://uwm.edu/schedule

BIO SCI 490 Molecular Genetics
3 cr. Undergraduate/Graduate.
Molecular mechanisms of higher organisms and model systems. Topics include gene structure, genetic and genomic analysis, gene expression and regulation. 2 hrs lec, 1 hr dis.
Prerequisites: jr st; Bio Sci 325(P); Bio Sci 315(C) & 316(C).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 495 Internship in Biotechnology, Upper Division
3-6 cr. Undergraduate.
Application of advanced principles in microbiology and biotechnology in appropriate settings.
Prerequisites: jr st; Bio Sci 383(303)(P) & 529(650)(P); declared microbio major; 2.5 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Last Taught: Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 496 UROP Apprenticeship, Upper-Level
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Spring 2017, Fall 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

BIO SCI 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2016, Fall 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

BIO SCI 498 Developmental Genetics
3 cr. Undergraduate/Graduate.
How genetic model organisms contribute to our knowledge of biology and how this knowledge impacts human health.
Prerequisites: jr st; grade of C or better in Bio Sci 325(P).
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BIO SCI 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: Specific topics may satisfy major area req; consult dept. May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
BIO SCI 500 Plant Physiology
3 cr. Undergraduate/Graduate.
Major biological activities of plants; including growth, development, and metabolism. 3 hrs lec/dis.
Prerequisites: jr st; Bio Sci 325(P); Bio Sci 310(P) or 315(P) or cons instr.
Course Rules: Cell & Molec Bio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 501 Plant and Aquatic Ecophysiology Laboratory
3 cr. Undergraduate/Graduate.
Hands-on examination of ecophysiological activities in plants and aquatic ecosystems using diverse field and lab experimental methods. 1 hr lec, 1 hr dis. 2 hrs lab.
Prerequisites: jr st; Bio Sci 325(P) or 310(P).
Course Rules: Cell & Molec Bio.
Last Taught: Fall 2016, Fall 1987, Fall 1986.
Current Offerings: http://uwm.edu/schedule

BIO SCI 502 Introduction to Programming and Modeling in Ecology and Evolution
3 cr. Undergraduate/Graduate.
Using R statistical language to teach script programming to address data manipulation, statistical modeling, and simple simulations in an ecological and evolutionary context.
Prerequisites: jr st; intro stats (e.g., Bio Sci 465).
Course Rules: Counts as repeat of Bio Sci 599 w/similar topic.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

BIO SCI 505 Conservation Biology
3 cr. Undergraduate/Graduate.
Genetic and ecological approaches to the conservation of biological diversity. Topics include biology of rare plants and animals, design of nature reserves, and restoration ecology. 3 hrs lec.
Prerequisites: jr st; Bio Sci 152(P) or 325(260)(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

BIO SCI 507 Environmental Microbiology
3 cr. Undergraduate/Graduate.
Bacteria from the environment; emphasis on aquatic systems; biogeochemical cycles, bioremediation, and environmental control of gene expression.
Prerequisites: jr st; Bio Sci 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2013, Fall 2011, Fall 2010, Spring 2004.
Current Offerings: http://uwm.edu/schedule

BIO SCI 511 Ichthyology
3 cr. Undergraduate/Graduate.
The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptations to diverse ecological systems.
Prerequisites: jr st; grade of C or better in Bio Sci 310(P); or cons instr.
Course Rules: Bio Sci 511 & FrshWtr 511 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

BIO SCI 512 Limnology I
3 cr. Undergraduate/Graduate.
The ecology of freshwater ecosystems as influenced by physical and chemical processes.
Prerequisites: jr st; Bio Sci 150(P) & 152(P), course in chem; or cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

BIO SCI 523 Evolution and Ecology of Birds
3 cr. Undergraduate/Graduate.
Study of the origin and maintenance of diversity in birds. Topics include systematics, biogeography, life-history behavior, and conservation. 3 hrs lec.
Prerequisites: jr st; Bio Sci 152(P) & 310(P).
Current Offerings: http://uwm.edu/schedule

BIO SCI 529 Molecular Biology of Microorganisms
3 cr. Undergraduate/Graduate.
Molecular analysis of microbial genetic systems of bacteria, phage, fungi, and yeast. 2 hrs lec, 1 hr dis.
Prerequisites: jr st; Bio Sci 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

BIO SCI 532 Behavioral Ecology
3 cr. Undergraduate/Graduate.
Behavioral adaptations of organisms in relation to their environment, including social organization, territoriality, cooperation and conflict, parental care, breeding strategies, foraging.
Prerequisites: jr st; Bio Sci 310(P).
Current Offerings: http://uwm.edu/schedule

BIO SCI 535 Bacterial Pathogenesis
3 cr. Undergraduate/Graduate.
Structural and physiological characteristics of important bacteria causing human and animal diseases. Interactions between pathogen and host, including host defense mechanisms.
Prerequisites: jr st; Bio Sci 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 536 Applied Microbiology and Biotechnology
3 cr. Undergraduate/Graduate.
Real-world application of natural and genetically-engineered microorganisms to bioremediation, waste treatment, agriculture and production of food, beverages, chemicals, fuels, enzymes, vaccines and pharmaceuticals. 3 hrs lec.
Prerequisites: jr st; Bio Sci 383(P) or cons instr.
Course Rules: Cell and Molec Bio; Microbio.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2004.
Current Offerings: http://uwm.edu/schedule
**BIO SCI 537 Industrial Microbiology and Biochemistry Laboratory**  
2 cr. Undergraduate/Graduate.  
Experiments using industrial fermentation approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques.  
**Prerequisites:** Bio Sci 383(P); Chem 501(P).  
**Course Rules:** Bio Sci 537 & Chem 537 are jointly offered; they count as repeats of one another. Cell & Molec Bio; Microbio.  
**Last Taught:** Fall 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 539 Laboratory Techniques in Molecular Biology**  
4 cr. Undergraduate/Graduate.  
Molecular biological techniques, including cell cultures, RNA and DNA isolation, cloning and sequencing of genes; use of expression vectors; protein electrophoresis. 2 hrs lec/dis, 6 hrs lab.  
**Prerequisites:** jr st, Bio Sci 315(P), 316(P), & 325(P).  
**Course Rules:** Cell & Molec Bio; Microbio.  
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 540 Microbial Diversity and Physiology**  
3 cr. Undergraduate/Graduate.  
Physiology, ecology, and diversity of microorganisms. 3 hrs lec.  
**Prerequisites:** jr st, Bio Sci 383(P).  
**Course Rules:** Cell & Molec Bio; Microbio.  
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 542 Biological Electron Microscopy**  
3 cr. Undergraduate/Graduate.  
Theory, design, and operating principles of scanning and transmission electron microscopes; preparation of biological specimens.  
**Prerequisites:** jr st, Bio Sci 315(P) & 316(P), or cons instr.  
**Course Rules:** Cell & Molec Bio; Microbio.  
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 543 Scanning Electron Microscopy Laboratory**  
2 cr. Undergraduate/Graduate.  
Lab/dis with an emphasis on ‘hands-on’ exercises including biological specimen prep, microscope operation and photography.  
**Prerequisites:** jr st, Bio Sci 542(C) & cons instr.  
**Course Rules:** Cell & Molec Bio.  
**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 544 Transmission Electron Microscopy Laboratory**  
3 cr. Undergraduate/Graduate.  
Lab/dis with an emphasis on ‘hands-on’ exercises including fixation and sectioning of biological specimens, microscope operation and photography.  
**Prerequisites:** jr st, 3 cr in Bio Sci 542(C), cons instr.  
**Course Rules:** Cell & Molec Bio; Microbio.  
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 545 Physiology of Reproduction**  
3 cr. Undergraduate/Graduate.  
Mammalian reproductive physiology with emphasis on humans; neuroendocrine control of reproductive cycles, pregnancy, and lactation; clinical implications; biological aspects of human population control.  
**Prerequisites:** jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.  
**Course Rules:** Cell & Molec Bio.  
**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 556 Developmental Neurobiology**  
3-4 cr. Undergraduate/Graduate.  
The mechanisms involved in the genesis and maintenance of nervous system organization. 3 hrs lec, 1 hr dis.  
**Prerequisites:** jr st; Bio Sci 354(P) or 356(P) or cons instr.  
**Course Rules:** Cell & Molec Bio. Grad students enroll in lec & dis for 4 cr. Undergrads may enroll in lec only for 3 cr or lec & dis for 4 cr.  
**Last Taught:** Fall 2013, Fall 2011, Fall 2009, Fall 2007.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 556E Topics in Field Biology**  
1-2 cr. Undergraduate/Graduate.  
Intensive mini-course on applied and basic field biology topics, e.g. vegetation sampling; natural area management; wetland delineation; identification, ecology of a taxon. On-line component; 2 or more days (depending on topic) in-person instruction.  
**Prerequisites:** jr st; Bio Sci 310(P) or equivalent; add'l prereqs may be required depending on topic.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** UWinterM 2018, Summer 2017, UWinterM 2017, Fall 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 564 Endocrinology**  
3 cr. Undergraduate/Graduate.  
Physiological, biochemical, and phylogenetic aspects of hormonal communication; emphasis on vertebrates. 3 hrs lec.  
**Prerequisites:** jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.  
**Course Rules:** Cell & Molec Bio.  
**Last Taught:** Spring 2017, Spring 2015, Spring 2014, Fall 2011.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 565 Eukaryotic Gene Regulation**  
3 cr. Undergraduate/Graduate.  
Molecular mechanism by which genes are regulated in higher eukaryotes, including humans. Role of gene regulation during normal development and disease in eukaryotes.  
**Prerequisites:** jr st, Bio Sci 315(P) or 325(P); or grad st.  
**Course Rules:** Cell & Molec Bio.  
**Last Taught:** Fall 2017, Spring 2017, Spring 2016, Spring 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**BIO SCI 566 Cell Biology of Human Disease**  
3 cr. Undergraduate/Graduate.  
Cellular and molecular mechanisms of human developmental diseases; cell signaling in the treatment and prevention of diseases and genetic syndromes.  
**Prerequisites:** jr st, BioSci 315(P); or grad st.  
**Course Rules:** Cell & Molec Bio.  
**Last Taught:** Spring 2018, Fall 2016, Fall 2015, Fall 2013.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
BIO SCI 572 Functional Genomics
3 cr. Undergraduate/Graduate.
Organization, function, and analysis of genes, proteins, and genomes using internet databases and bioinformatic tools; current knowledge of genomes in various organisms; transcriptomics and proteomics. 2 hrs lec, 1 hr dis.
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 573 Cellular Evolution
3 cr. Undergraduate/Graduate.
Theories concerning the origin of life on Earth and the evolution of cellular structure and function, culminating in the emergence of the multicellular kingdoms. 2 hrs lec, 1 hr dis.
Prerequisites: sr st; Bio Sci 315(P) or 325(P); Bio Sci 316(P); Chem 341/342(P) or 343/344/345(P), or cons instr; Bio Sci 383(R) or 490(R) or Chem 501(R) or 601(R).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 575 Evolutionary Biology
3 cr. Undergraduate/Graduate.
Evolutionary processes in natural populations. Topics include mating patterns, speciation, gene flow, natural selection, and genetic approaches to conservation. 3 hrs lec.
Prerequisites: jr st; Bio Sci 312(P) & 325(260)(P).
Course Rules: Grad students must reg conc in Bio Sci 776.
Current Offerings: http://uwm.edu/schedule

BIO SCI 580 Experimental Microbiology
4 cr. Undergraduate/Graduate.
Modern experimental approaches to study of microbial physiology and genetics. 2 hrs lec/6 hrs lab.
Prerequisites: jr st; Bio Sci 383(P).
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 596 Neuropharmacology
3 cr. Undergraduate/Graduate.
Cellular and molecular mechanisms of drug action on the nervous system. Topic include drug affects on neurotransmitters, receptors, cell signaling, and neurological disease/disorders.
Prerequisites: jr st; BioSci/Psych 354(P) or 355(P) or Psych 654(P) or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 597 RNA Structure, Function, and Metabolism
3 cr. Undergraduate/Graduate.
Structural and functional complexity of RNA. RNA as genetic material, enzymes and regulators; micro RNAs as potential therapeutics.
Prerequisites: jr st; Bio Sci 325(P) or cons instr.
Course Rules: Cell & Molec Bio; Microbio.
Current Offerings: http://uwm.edu/schedule

BIO SCI 599 Special Topics in Biological Sciences:
1-3 cr. Undergraduate/Graduate.
In-depth examination of important subjects in one or more areas of the biological sciences. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2016, Fall 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

BIO SCI 611 Seminar on Recent Advances in Limnology and Oceanography:
2 cr. Undergraduate/Graduate.
Lectures and discussion of current issues in limnology and oceanography; focus on a specific issue or research topic.
Prerequisites: jr st; Bio Sci 512(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

BIO SCI 670 Senior Seminar in Biological Sciences
1 cr. Undergraduate.
Examination of biological literature and preparation, presentation, and discussion of oral reports by individual students.
Prerequisites: sr st; Bio Sci lab course numbered 300-349; declared Bio Sci major.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 671 Undergraduate Seminar in Microbiology
1 cr. Undergraduate.
Examination of microbiological literature; preparation, presentation, and discussion of oral reports by individual students.
Prerequisites: sr st; Bio Sci 383(P).
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BIO SCI 672 Undergraduate Seminar in Cell and Molecular Biology
1 cr. Undergraduate.
Examination of cell and molecular biology literature; preparation, presentation, and discussion of oral reports by individual students.
Prerequisites: sr st; Bio Sci 315(P) & 316(P).
Current Offerings: http://uwm.edu/schedule

BIO SCI 695 Independent Study in Freshwater Sciences for Biological Sciences Students
1-3 cr. Undergraduate.
Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science.
Prerequisites: jr st; Bio Sci 325(P); one of Bio Sci 310(P), 315(P)/316(P), or 383(P); 2.500 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Bio Sci 695 & FrshWtr 695 are jointly offered; w/same subject, they count as repeats of one another. Maybe be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
Last Taught: Fall 2017, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule
BIO SCI 697 Independent Study in Cell and Molecular Biology
1-3 cr. Undergraduate.
Independent and original research conducted under the direction of a cell/molecular biology faculty or staff member.
Prerequisites: jr st; Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 698 Independent Study in Microbiology
1-3 cr. Undergraduate.
Introduction to research. Independent and original study conducted under the direction of a faculty or staff member.
Prerequisites: jr st; Bio Sci 385(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
Current Offerings: http://uwm.edu/schedule

BIO SCI 699 Independent Study
1-3 cr. Undergraduate.
Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member. Requires submission of a formal study proposal.
Prerequisites: jr st, Bio Sci 325(260)(P); Bio Sci 310(P) or Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
Current Offerings: http://uwm.edu/schedule

BIO SCI 725 Recent Advances in Molecular Microbiology and Immunology
3 cr. Graduate.
Current developments and research in molecular microbiology and/or immunology. 3 hrs lec.
Prerequisites: grad st or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2011, Spring 2010, Fall 2007, Fall 2006.
Current Offerings: http://uwm.edu/schedule

BIO SCI 750 Scientific Writing
2 cr. Graduate.
Writing techniques for the sciences, including proposal writing, submission of papers to journals. Writing and editing research proposals, scientific papers, and review papers. Critique of published papers.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

BIO SCI 800 Graduate Capstone in Biological Sciences:
2 cr. Graduate.
Capstone Seminar involving extensive research and evaluation of the scientific literature on a specific topic. Group and individual oral presentations required. Not re-takable for credit.
Prerequisites: Open only to MS students in non-thesis track; cons instr.
Current Offerings: http://uwm.edu/schedule

BIO SCI 899 Advanced Independent Studies
1-3 cr. Graduate.
Special studies at the graduate level involving independent reading, library research, and/or field for laboratory study other than thesis research.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 8 cr max.
Current Offerings: http://uwm.edu/schedule

BIO SCI 900 Biology Colloquium
1 cr. Graduate.
Talks by invited speakers and faculty members on topics of biological interest.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 925 Seminar: Molecular and Cell Biology
1-2 cr. Graduate.
Current topics in molecular biology examined in a seminar format.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 927 Seminar: Population and Community Ecology
1-2 cr. Graduate.
Current topics in population and community ecology examined in a seminar format.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

BIO SCI 928 Seminar: Aquatic Biology
1-2 cr. Graduate.
Current topics in aquatic biology examined in a seminar format.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

BIO SCI 929 Seminar: Behavioral Biology
1-2 cr. Graduate.
Current topics in behavioral biology examined in a seminar format.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 931 Seminar in Systematic Biology and Evolution
1-2 cr. Graduate.
Current topics in systematic biology and evolution explored in a seminar format.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
BIO SCI 933 Seminar in Neuroscience
2 cr. Graduate.
Student oral and poster presentations in cellular, molecular, behavioral, and cognitive neuroscience. Students will also write evaluations and summaries of external presentations.
Prerequisites: grad st in Psych, Bio Sci, or Ed Psych or cons instr
Course Rules: Retakable to 8 cr max. Bio Sci 933 & Psych 933 are jointly offered; students may enroll under only one of the curricular areas in any single semester.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule

BIO SCI 934 Research Advances in Cell and Molecular Biology
1-10 cr. Graduate.
Presentation and discussion of original research and current topics in cell and molecular biology. Retakable to 10 cr max.
Prerequisites: grad st
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 935 Research Advances in Evolution, Ecology, and Behavior
1-10 cr. Graduate.
Presentation and discussion of original research and current topics in evolution, ecology, and behavior. Retakable to 10 cr max.
Prerequisites: grad st
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 936 Research Advances in Microbiology
1-10 cr. Graduate.
Presentation and discussion of original research and current topics in microbiology. Retakable to 10 cr max.
Prerequisites: grad st
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

BIO SCI 990 Research
1-8 cr. Graduate.
Mentored research in partial fulfillment of thesis requirements.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

Cross-listed Courses
The following courses offered by other departments may be used to fulfill the requirements of the undergraduate major and minor in biological sciences:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
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<tr>
<td>CES 490</td>
<td>Senior Seminar: Conservation and Environmental Science</td>
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<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
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<td>PSYCH 254</td>
<td>Physiological Psychology</td>
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<td>PSYCH 654</td>
<td>Advanced Physiological Psychology</td>
<td>4</td>
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Faculty

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<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Filipe Alberto</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Algarve, Portugal</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Sonia Bardy</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Queen's University, Ontario</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>John Berges</td>
<td>Professor</td>
<td>PhD</td>
<td>University of British Columbia</td>
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<tr>
<td>Gerald Bergstrom</td>
<td>Professor</td>
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<tr>
<td>Martin Boraas</td>
<td>Associate Professor</td>
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<td>Arthur S. Brooks</td>
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<td>John Buntin</td>
<td>Professor</td>
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<td>James R. Coggins</td>
<td>Associate Professor</td>
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<tr>
<td>Mary Lynne Perille Collins</td>
<td>Professor</td>
<td>PhD</td>
<td>Rutgers University</td>
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<tr>
<td>Madhusudan Dey</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Jawaharlal Nehru University, India</td>
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</tr>
<tr>
<td>Peter Dunn</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Alberta</td>
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<tr>
<td>Timothy Ehlinger</td>
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<tr>
<td>Millicent S. Ficken</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Steven Forst</td>
<td>Professor</td>
<td>PhD</td>
<td>New York University</td>
<td>✓</td>
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<tr>
<td>Ralph Grunewald</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td>✓</td>
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</tr>
<tr>
<td>Jennifer Gutzman</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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</tr>
<tr>
<td>R. David Heathcote</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<td></td>
</tr>
<tr>
<td>Gerlinde Hoebel</td>
<td>Associate Professor</td>
<td>DNS, PhD</td>
<td>University of Ulm, Germany</td>
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<tr>
<td>Sara B. Hoot</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td></td>
<td>✓</td>
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<tr>
<td>Reinhold Hutz</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Colorado</td>
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<tr>
<td>Jeffrey Karron</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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</tbody>
</table>
Biological Sciences, BA

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior; cell and molecular biology, or microbiology. Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A degree in Biological Sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.
Related Areas of Study
The Conservation and Environmental Science (p. 1156) major is an alternative, interdisciplinary program for students with specific interests in conservation or environmental science. The Pre-Forestry (Wildlife Management) (p. 1696) curriculum is located in the Pre-Professional Programs (p. 1694) section.

Requirements
Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

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<td>Oral and Written Communication</td>
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<td>Part A</td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<td>Part B</td>
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<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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Quantitative Literacy

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<td>Select one of the following:</td>
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<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
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<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
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</tbody>
</table>

Arts

Select 3 credits 3

Humanities

Select 6 credits 6

Social Sciences

Select 6 credits 6

Natural Sciences

Select 6 credits (at least two courses including one lab) 6

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:
Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
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</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
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<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
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<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
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<td>BIO SCI 465</td>
<td>Biostatistics</td>
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<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
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<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
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<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
</tbody>
</table>
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

**Natural Sciences**

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation.

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Biological Sciences Major Requirements**

The Biological Sciences major requires the following:

- A minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.
- At least 15 of the advanced credits must be taken in residence at UWM.
- Completion of four (4) laboratory courses
- A GPA of 2.500 in Biological Sciences courses attempted at UWM.
- A GPA of at least 2.500 in all major credits attempted, including any transfer work.

No more than eight (8) credits in 100-level courses in Biological Sciences may be applied toward the major, and students may not combine BIO SCI 150, BIO SCI 202, and BIO SCI 203 for more than 9 credits toward the major. A combined limit of 6 credits in BIO SCI 290, BIO SCI 489, BIO SCI 695, BIO SCI 697, BIO SCI 698, BIO SCI 699, HONORS 687, and HONORS 689 counts toward the major.

Additional requirements for the major include the following:
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra (or equivalent)</td>
<td>3</td>
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</table>

### Physics Foundation

Select one of the following options: 9-10

**Option 1:**
- PHYSICS 120: General Physics I (Non-Calculus Treatment)
- PHYSICS 122: General Physics II (Non-Calculus Treatment)
- PHYSICS 121: General Physics Laboratory I (Non-Calculus Treatment) (at least one semester)

**Option 2:**
- PHYSICS 209: Physics I (Calculus Treatment)
- PHYSICS 210: Physics II (Calculus Treatment)
- PHYSICS 214: Lab Physics I (Calculus Treatment) (at least one semester)

**Option 3:**
- PHYSICS 219: Physics I: Calculus-Based, Studio Format
- PHYSICS 220: Physics II: Calculus-Based, Studio Format

### Chemistry Foundation

**Part A:**
- CHEM 102: General Chemistry 5
- CHEM 104: General Chemistry and Qualitative Analysis 5

**Part B:**
Select one of the following options: 5-8

**Option 1:**
- CHEM 341: Introductory Survey of Organic Chemistry
- CHEM 342: Introductory Organic Chemistry Laboratory

**Option 2:**
- CHEM 343: Organic Chemistry
- CHEM 344: Organic Chemistry Laboratory
- CHEM 345: Organic Chemistry

1 For students in the Cell and Molecular Biology (CMB) option, CHEM 343, CHEM 344, and CHEM 345 are required, and a second physics lab is strongly recommended.

### Research Requirement

Select one of the following: 1-6

- BIO SCI 611: Seminar on Recent Advances in Limnology and Oceanography
- BIO SCI 670: Senior Seminar in Biological Sciences
- BIO SCI 671: Undergraduate Seminar in Microbiology
- BIO SCI 672: Undergraduate Seminar in Cell and Molecular Biology
- HONORS 686: Research in Honors
- HONORS 687: Senior Honors Project
- HONORS 689: Senior Honors Thesis
- BIO SCI 695: Independent Study in Freshwater Sciences for Biological Sciences Students
- BIO SCI 697: Independent Study in Cell and Molecular Biology
- BIO SCI 698: Independent Study in Microbiology
- BIO SCI 699: Independent Study

Capstone option for Biological Sciences/CES double majors only:
- CES 471: Practicum in Natural Resources Management

### Laboratory Course Requirement

Select one of the following: 1-4

- BIO SCI 202: Anatomy and Physiology I
- BIO SCI 203: Anatomy and Physiology II
- BIO SCI 358: Birds of Wisconsin
- BIO SCI 372: Animal Physiology and Neurobiology Laboratory
- BIO SCI 383: General Microbiology
- BIO SCI 402: Immunological Techniques
- BIO SCI 407: Plant Systematics and Evolution
- BIO SCI 451: Field Methods in Conservation
- BIO SCI 501: Plant and Aquatic Ecophysiology Laboratory
- BIO SCI 537: Industrial Microbiology and Biochemistry Laboratory
- BIO SCI 539: Laboratory Techniques in Molecular Biology
- BIO SCI 543: Scanning Electron Microscopy Laboratory
- BIO SCI 544: Transmission Electron Microscopy Laboratory
- BIO SCI 580: Experimental Microbiology

### Electives

Select electives to reach a total of 26 upper-division (numbered 300 and above) credits and one additional laboratory course

<table>
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<td>BIO SCI 150</td>
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<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
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<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
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**Total Credits:** 18-27
### Cell and Molecular Biology Option

<table>
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<th>Title</th>
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<td>BIO SCI 150</td>
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<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
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<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
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</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
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**Laboratory Course Requirement**

Select at least one of the following: 1-4

- BIO SCI 203  
  Anatomy and Physiology II
- BIO SCI 372  
  Animal Physiology and Neurobiology Laboratory
- BIO SCI 383  
  General Microbiology
- BIO SCI 402  
  Immunological Techniques
- BIO SCI 501  
  Plant and Aquatic Ecophysiology Laboratory
- BIO SCI 537  
  Industrial Microbiology and Biochemistry Laboratory
- BIO SCI 539  
  Laboratory Techniques in Molecular Biology
- BIO SCI 543  
  Scanning Electron Microscopy Laboratory
- BIO SCI 544  
  Transmission Electron Microscopy Laboratory
- BIO SCI 580  
  Experimental Microbiology

**Electives**

1. Choose at least one U-only Cell and Molecular Biology course numbered between 350 and 399 3-4
2. Choose at least one U/G Cell and Molecular Biology course numbered 400 or above 3

**Research Requirement**

- BIO SCI 672  
  Undergraduate Seminar in Cell and Molecular Biology 1-3
- or BIO SCI 697  
  Independent Study in Cell and Molecular Biology

**Additional Requirement**

Select additional Cell and Molecular Biology courses to reach a total of at least 18 credits beyond the core courses and a total of at least 26 upper-division (numbered 300 and above) credits 25-31

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**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office ([https://uwm.edu/letters-science/advising/contact-advising](https://uwm.edu/letters-science/advising/contact-advising)) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website ([https://uwmilwaukee.campus.eab.com](https://uwmilwaukee.campus.eab.com)) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Department Advising**

Students should contact an advisor ([uwm.edu/biology/undergraduate/advising](http://uwm.edu/biology/undergraduate/advising)) as soon as possible in their freshman year about required courses and the recommended course sequence within Biological Sciences programs. The student should attend fall or spring departmental Open Advising or contact a Department of Biological Sciences faculty advisor ([uwm.edu/biology/undergraduate/advising](http://uwm.edu/biology/undergraduate/advising)) who will then guide the student in planning his/her course choices to accomplish his/her goals. Students should consult their College academic advisors in Holton Hall and their faculty advisors in the Department of Biological Sciences prior to each registration period.

**Major or Minor Declaration:**

Biological Sciences students should complete Bio Sci 150 and be enrolled in Bio Sci 152 before officially declaring a major in Biological Sciences. Students can declare a major or minor by contacting a faculty advisor in Biological Sciences or attending fall or spring departmental Open Advising. Students can declare more than one major or a combination of major and minors ([uwm.edu/biology/undergraduate/declare-majorminor](http://uwm.edu/biology/undergraduate/declare-majorminor)).

**Failure to complete a declaration of major may result in a delay in graduation.**

**Honors in the Major**

Students in Biological Sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study (BIO SCI 695, BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in Biological Sciences should apply to the Department of Biological Sciences during their last semester of study.

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, bioscsci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/biology/undergraduate/majors/

Biological Sciences, BS

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology.

Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A degree in Biological Sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

Requirements
Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

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<td>Part B</td>
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<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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<td></td>
<td>UWM Foreign Language Requirement</td>
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<td>Complete Foreign Language Requirement through:</td>
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<td>Two years (high school) of a single foreign language</td>
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<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td>6</td>
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<tr>
<td></td>
<td>Or equivalent</td>
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</tr>
</tbody>
</table>
II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIO 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a Writing requirement. Students must satisfy the English Writing Requirement by completing ENGLISH 102 on the English Placement Test (EPT).

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
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</tr>
<tr>
<td>SOCIO 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.
VI. The Major
The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement.
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Biological Sciences Major Requirements
The Biological Sciences major requires the following:

- A minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.
- At least 15 of the advanced credits must be taken in residence at UWM.
- Completion of four (4) laboratory courses
- A GPA of 2.500 in Biological Sciences courses attempted at UWM.
- A GPA of at least 2.500 in all major credits attempted, including any transfer work.

No more than eight (8) credits in 100-level courses in Biological Sciences may be applied toward the major, and students may not combine BIO SCI 150, BIO SCI 202, and BIO SCI 203 for more than 9 credits toward the major. A combined limit of 6 credits in BIO SCI 290, BIO SCI 489, BIO SCI 695, BIO SCI 697, BIO SCI 698, BIO SCI 699, HONORS 686, HONORS 687, and HONORS 689 counts toward the major.

Flexible Biological Sciences Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4-5</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
</tbody>
</table>

Option 1:

- PHYSICS 120 General Physics I (Non-Calculus Treatment)
- PHYSICS 122 General Physics II (Non-Calculus Treatment)
- PHYSICS 121 General Physics Laboratory I (Non-Calculus Treatment) (at least one semester)

Option 2:

- PHYSICS 209 Physics I (Calculus Treatment)
- PHYSICS 210 Physics II (Calculus Treatment)

Chemistry Foundation

Part A:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
</tbody>
</table>

Part B:

Select one of the following options: 5-8

Option 1:

- CHEM 341 Introductory Survey of Organic Chemistry
- CHEM 342 Introductory Organic Chemistry Laboratory

Option 2:

- CHEM 343 Organic Chemistry
- CHEM 344 Organic Chemistry Laboratory
- CHEM 345 Organic Chemistry

1 For students in the Cell and Molecular Biology (CMB) option, CHEM 343, CHEM 344, and CHEM 345 are required, and a second physics lab is strongly recommended.

Students who plan to attend graduate or professional schools are advised to take the one-year sequence of Organic Chemistry with lab, a course in Biochemistry (CHEM 501; also counts toward major), and two semesters of Calculus.
BIO SCI 695 Independent Study in Freshwater Sciences for Biological Sciences Students
BIO SCI 697 Independent Study in Cell and Molecular Biology
BIO SCI 698 Independent Study in Microbiology
BIO SCI 699 Independent Study

Capstone option for Biological Sciences/CES double majors only:
CES 471 Practicum in Natural Resources Management

Laboratory Course Requirement
Select one of the following: 1-4
- BIO SCI 202 Anatomy and Physiology I
- BIO SCI 203 Anatomy and Physiology II
- BIO SCI 358 Birds of Wisconsin
- BIO SCI 372 Animal Physiology and Neurobiology Laboratory
- BIO SCI 383 General Microbiology
- BIO SCI 402 Immunological Techniques
- BIO SCI 407 Plant Systematics and Evolution
- BIO SCI 451 Field Methods in Conservation
- BIO SCI 501 Plant and Aquatic Ecophysiology Laboratory
- BIO SCI 537 Industrial Microbiology and Biochemistry Laboratory
- BIO SCI 539 Laboratory Techniques in Molecular Biology
- BIO SCI 543 Scanning Electron Microscopy Laboratory
- BIO SCI 544 Transmission Electron Microscopy Laboratory
- BIO SCI 580 Experimental Microbiology

Electives
Select electives to reach a total of 26 upper-division (numbered 300 and above) credits and one additional laboratory course

Total Credits 18-27

Cell and Molecular Biology Option

Core Courses
- BIO SCI 150 Foundations of Biological Sciences I 4
- BIO SCI 152 Foundations of Biological Sciences II 4
- BIO SCI 316 Cell Biology 3
- BIO SCI 315 General Ecology 4
- BIO SCI 325 Genetics 4
- BIO SCI 325 Genomics 4
- BIO SCI 325 Biostatistics 4

Laboratory Course Requirement
Select at least one of the following: 1-4
- BIO SCI 203 Anatomy and Physiology II
- BIO SCI 372 Animal Physiology and Neurobiology Laboratory
- BIO SCI 383 General Microbiology
- BIO SCI 402 Immunological Techniques
- BIO SCI 501 Plant and Aquatic Ecophysiology Laboratory

Electives
Select at least one U-only Cell and Molecular Biology course numbered between 350 and 399 3-4
Select at least one U/G Cell and Molecular Biology course numbered 400 or above 3

Research Requirement
- BIO SCI 672 Undergraduate Seminar in Cell and Molecular Biology 1-3
- or BIO SCI 697 Independent Study in Cell and Molecular Biology

Additional Requirement
Select additional Cell and Molecular Biology courses to reach a total of at least 18 credits beyond the core courses and a total of at least 26 upper-division (numbered 300 and above) credits

Total Credits 25-31

1 For a full listing of courses, please see the Schedule of Classes (http://uwm.edu/schedule).

Ecology, Evolution, and Behavior Option

Required Biological Sciences Courses
- BIO SCI 150 Foundations of Biological Sciences I 4
- BIO SCI 152 Foundations of Biological Sciences II 4
- BIO SCI 310 General Ecology 4
- BIO SCI 325 Genetics 4
- BIO SCI 465 Biostatistics 4

Laboratory Course Requirement
Select at least one of the following: 2-4
- BIO SCI 358 Birds of Wisconsin
- BIO SCI 383 General Microbiology
- BIO SCI 407 Plant Systematics and Evolution
- BIO SCI 451 Field Methods in Conservation
- BIO SCI 501 Plant and Aquatic Ecophysiology Laboratory
- BIO SCI 502 Intro to Programming and Modeling in Ecology and Evolution
- BIO SCI 539 Laboratory Techniques in Molecular Biology

Research Requirement
Select one of the following: 1-6
- BIO SCI 611 Seminar on Recent Advances in Limnology and Oceanography
- BIO SCI 670 Senior Seminar in Biological Sciences
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless of their major in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Department Advising

Students should contact an advisor (uwm.edu/biology/undergraduate/advising/ (http://uwm.edu/biology/undergraduate/advising/)) as soon as possible in their freshman year about required courses and the recommended course sequence within Biological Sciences programs. The student should attend fall or spring departmental Open Advising or contact a Department of Biological Sciences faculty advisor (uwm.edu/biology/undergraduate/advising/ (http://uwm.edu/biology/undergraduate/advising/)) who will then guide the student in planning his/her course choices to accomplish his/her goals. Students should consult their College academic advisors in Holton Hall and their faculty advisors in the Department of Biological Sciences prior to each registration period.

Major or Minor Declaration:

Biological Sciences students should complete Bio Sci 150 and be enrolled in Bio Sci 152 before officially declaring a major in Biological Sciences. Students can declare a major or minor by contacting a faculty advisor in Biological Sciences or attending fall or spring departmental Open Advising. Students can declare more than one major or a combination of major and minors (uwm.edu/biology/undergraduate/declare-majorminor/ (http://uwm.edu/biology/undergraduate/declare-majorminor/)).

Failure to complete a declaration of major may result in a delay in graduation.

Honors in the Major

Students in biological sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study (BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in biological sciences should apply to the Department during their last semester of study.

Honors in the College of Letters and Science

Dean's Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.
**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact the Department directly, biosci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/biology/undergraduate/majors/

**Biological Sciences, Minor**

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology.

Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in medicine, dentistry, pharmacy, food management, bioremediation, as well as the biomedical and healthcare, agriculture, natural resources and environmental sciences, and is truncated at the third decimal (e.g., 3.499).

**Requirements**

At least 9 credits must be taken at or above the 300 level in residence at UWM. Students must maintain a GPA of 2.500 in minor courses attempted at UWM. In addition, students must attain a GPA of 2.500 in all minor courses attempted, including any transfer work. The minor consists of 19 credits in Biological Sciences including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4-6</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology and Laboratory in Genetics and Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics and Laboratory in Genetics and Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Cell Biology and Laboratory in Genetics and Cell Biology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Additional Requirements**

Select at least 7 additional credits in courses that carry credit toward the major

**Total Credits**

19-21

**Contact Information**

Current Students contact the Department directly, biosci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/biology/undergraduate/

**Biological Sciences, MS**

The Department of Biological Sciences offers graduate programs in biology with areas of concentration in botany; microbiology; cellular and molecular biology; genetics; physiology and morphology of plants and animals; terrestrial and aquatic ecology; behavioral biology; conservation biology; and evolution.

Both a thesis and non-thesis track are offered within the MS degree. The thesis track is a research-based degree and is intended for students pursuing careers in formal research or planning to continue study towards the Ph.D. degree. The non-thesis track is a coursework-intensive MS degree designed for students desiring a graduate education to enhance employment opportunities or prior to obtaining a professional degree. Students may switch from the non-thesis track to the thesis track if all requirements are met (e.g., GRE) and with written approval of the student’s advisor and the Graduate Program Director.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Fall Semester**

- 12/01 - MS Thesis Track / PhD Thesis Track
- 05/01 - MS Non-Thesis Track

**Spring Semester**

- 10/01 - MS Non-Thesis Track

**Thesis Track**

Students are required to maintain full-time status and develop a formal thesis to earn the degree. Admission is during the fall semester only. When applying for admission, applicants should describe in their personal statement as completely as possible their specific research interests within biological sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Biological Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student’s major professor. To assist the applicant in this process, a Biological Sciences Graduate Program brochure is available, which
describes the research activities of the faculty. The brochure can be obtained by contacting the departmental office.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate coursework equivalent to the Biological Sciences major at UWM, including coursework in the following areas of plant or animal science: cellular and molecular biology or genetics; organismal biology; ecology. Additional coursework in chemistry through organic or biochemistry; mathematical preparation including at least one course in calculus, statistics, or biometry; and a year of physics are strongly encouraged.

2. Submission of scores from one of the following exams: the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre), Medical College Admission Test (MCAT), Dental Admission Test (DAT), Pharmacy College Admission Test (PCAT) or Praxis test.

3. At least two letters of recommendation from persons familiar with the applicant’s scholarship.

4. International students must meet the minimum department requirements for English proficiency: completion of a baccalaureate or higher degree within the last 2 years from an institution where English is the sole language of instruction with a minimum of 2 years attendance; a minimum TOEFL score of 79 overall with a minimum score of 23 on the Speaking portion; a minimum IELTS score of 6.5 overall with a minimum score of 7.0 on the Speaking portion; or a minimum CAE score of C1 overall with a minimum of 185 on the Speaking portion.

Credits and Courses
Thesis Track
Minimum degree requirement is 30 graduate credits, at least 24 of which must be in biological sciences and up to 6 of which may be in related courses. Of the 24 credits, at least 12 must be course or seminar credits. The student must take at least two seminars during the course of the student’s program up to a maximum of 4 credits counting toward the degree; and enroll in Biology Colloquium (BIO SCI 900) each semester with a maximum of 4 colloquium credits counting toward the degree. The student must enroll in a minimum of 12 credits in research (BIO SCI 990). The student plans a program of studies in consultation with the major professor. If desired, a special area of concentration (botany, microbiology, physiology) may be declared. A cumulative GPA of 3.0 or higher on a 4.0 scale is required to receive the MS degree.

Non-Thesis Track
Minimum degree requirement is 30 graduate credits, at least 20 of which must be in courses offered by the Department of Biological Sciences.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 925</td>
<td>Seminar: Molecular and Cell Biology:</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 929</td>
<td>Seminar: Behavioral Biology:</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 931</td>
<td>Seminar in Systematic Biology and Evolution:</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 933</td>
<td>Seminar in Neuroscience</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 934</td>
<td>Research Advances in Cell and Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 935</td>
<td>Research Advances in Evolution, Ecology, and Behavior</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 936</td>
<td>Research Advances in Microbiology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 899</td>
<td>Advanced Independent Studies</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 900</td>
<td>Biology Colloquium</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 800</td>
<td>Graduate Capstone in Biological Sciences:</td>
<td></td>
</tr>
</tbody>
</table>

Select additional BIO SCI credits to fulfill the required 20 credits

Total Credits: 12
Any remaining course work may be completed in other departments within UWM with the approval of the student’s advisor and the Graduate Program Director.

A cumulative GPA of a 3.0 or higher on a 4.0 scale is required to receive the MS degree.

Capstone Requirements

All students in the non-thesis MS track must enroll once in BIO SCI 800. For successful completion of the capstone, students must demonstrate the ability to read and understand current scientific literature in the biological sciences, and apply acquired knowledge in biological sciences to a topic presentation.

In addition to BIO SCI 800, all students must submit a minimum of two examples of scientific writing that have been completed and graded during their graduate studies. At least one of these must be from a laboratory course or experience. These documents must be submitted to the Graduate Program Director and will be used as a portfolio to demonstrate the students’ analytic and scientific writing abilities.

Program Requirements

Thesis Track

MS Graduate Advisory Committee

The MS Graduate Advisory Committee is selected by the major professor in consultation with the student, by the end of the first year of enrollment. The MS Advisory Committee consists of the major professor and two other graduate faculty members. The Committee must meet at least once a year to monitor and formally report on the student’s academic and research progress.

Oral Examination

The student must pass an MS oral examination. The examination should be taken by the end of the first year of enrollment and must be taken no later than the end of the second year of enrollment. The student’s MS Advisory Committee administers the oral examination.

Thesis

Students must prepare and defend a formal thesis reporting the results of their research. During the final year of study, students must present a seminar on their research, with prior public announcement. Submission of the final thesis to the Graduate School is required to complete the MS degree.

Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The Graduate Committee assigns a faculty advisor as a necessary prerequisite to admission.

Time Limit

Thesis Track, student must complete all degree requirements within five years of initial enrollment

Non Thesis Track

MS Graduate Advisor

Upon admission to the program, the student will be assigned an advisor whose research background is similar to the student’s stated area of interest and career goals. Students may request a specific advisor from the faculty list; however, requesting an advisor does not guarantee availability. During the first semester of study the student and advisor must complete and submit a Plan of Study to the Graduate Program Director. The Plan of Study will detail the coursework to be taken for completion of the degree and can be modified at any time during the program.

Time Limit

Student must complete all degree requirements within three years of initial enrollment.

Biological Sciences, PhD

The Department of Biological Sciences offers graduate programs in biology with areas of concentration in botany; microbiology; cellular and molecular biology; genetics; physiology and morphology of plants and animals; terrestrial and aquatic ecology; behavioral biology; conservation biology; and evolution.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

• Applicant must present at least 30 credits in one or more areas of biological sciences and must show substantial evidence of scholarly potential. A master’s degree is not prerequisite for admission to the PhD program.

• Other academic preparation: a year of general physics including at least one semester of laboratory; one year of general college chemistry with laboratory, plus at least one semester of organic chemistry with laboratory or biochemistry with laboratory; two courses in college mathematics chosen from among courses in calculus, biometry or statistics.

• Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).

• Acceptance by a faculty member in the program who will act as major professor (sponsor): see Major Professor as Advisor.

• Three letters of recommendation from persons familiar with the applicant’s scholarship, research achievements and potential.

Applicants may be admitted with specific course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements with a grade of C or better within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. The student is expected to maintain a grade of B in all other coursework.

Reapplication

A student in the MS program, or who receives the master’s degree at UWM, must formally reapply for admission to the Graduate School before continuing studies toward the PhD

Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM.
At least 30 of the 54 credits must be in biological sciences; 12 credits may be earned in allied sciences, including those in the secondary area of concentration or minor field(s).

**Program Requirements**

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The graduate committee assigns the incoming biological sciences student to an advisor whose experience and research most closely approximates the student's own career interests. Before the student's preliminary examination either this initially assigned advisor or another qualified staff member is designated as the student's major professor.

**Secondary Area of Concentration**
The student must select a secondary area of concentration either within biological sciences or in an allied science, and must present at least 9 credits of coursework in that area to the departmental Graduate Committee. A university minor (option A or B) may qualify as a secondary area of concentration upon approval by the departmental Graduate Committee.

**Language or Data Analysis Proficiency**
The student must demonstrate proficiency either in a foreign language or data analysis. The student can demonstrate language proficiency in one language other than English (German, French, Russian or Spanish preferred), either through examinations or through 12 credits of specified coursework, either before or after admission to the program. The student can demonstrate proficiency in data analysis by presenting 12 credits in one or more of the following: mathematics (200-level or above), statistics, computer science.

**Residence**
The student must meet Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence).

**PhD Advisory Committee**
The PhD Advisory Committee shall be selected by the major professor in consultation with the student by the end of the first year of enrollment. The PhD Advisory Committee shall consist of the major professor and four other graduate faculty members. One of the faculty should reflect competency in the secondary area of concentration. When the advisory committee is formed, the student must prepare a departmental “certification document” for the approval of the committee. The committee must meet at least once a year to monitor and formally report on the student’s academic and research progress.

**Dissertation Proposal and Doctoral Preliminary Examination**
Prior to the doctoral preliminary examination, the student submits a preliminary written dissertation proposal to the student's PhD Advisory Committee and delivers an oral presentation of relevant research in progress. The doctoral preliminary examination is in two parts. Part I is a written exam; Part II is an oral exam. Parts I and II of the doctoral preliminary examination must be taken with a warrant from the Graduate School; and must be taken before the end of the second or third year of full-time enrollment (before completion of 24 or 36 credits for students with a MS or B.S. degree, respectively). Deviation from this plan must be approved by the Graduate Committee.

**Dissertator Status**
Specific requirements which must be completed before the Graduate School places a doctoral student in dissertator status are described in the Doctor of Philosophy Degree requirements (http://uwm.edu/graduateschool/doctoral-requirements) section.

**Dissertation**
In consultation with the major professor the candidate must select a suitable research project and submit a written research plan. The final dissertation proposal constitutes the student’s written research plan which is subject to approval of the PhD Advisory Committee. This plan is to be submitted to the Department. The research plan will be reviewed for progress annually. During the final year of study the candidate must present a seminar, with prior public announcement, on this research and must prepare a dissertation reporting the results of this research. The original research findings embodied in this dissertation should be acceptable for publication in a refereed journal.

**Dissertation Defense**
As the final step toward the degree the candidate must defend the dissertation before the PhD Advisory Committee.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program. For additional information on Graduate School PhD requirements, see the Doctor of Philosophy Degree requirements (http://uwm.edu/graduateschool/doctoral-requirements) section.

**Microbiology, BA**

Microorganisms were the first living things on Earth, and they remain the most abundant and the most diverse of all organisms. Microorganisms cause diseases of plants, animals and humans, and play critical roles in biogeochemical cycles and bioremediation, and are also important in the food and biotechnology industries.

As a microbiologist, students will be on the cutting edge of developments in industrial production processes, public health, biotechnology, and drug discovery. The Microbiology major prepares students for a variety of careers in the fields of microbiology, molecular biology, biotechnology, and health related professions, and for graduate and professional studies in areas such as medical microbiology, industrial microbiology, environmental microbiology, microbial biotechnology, and molecular biology.

**Requirements**

**Course of Study – Bachelor of Arts Degree**
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.
To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

**College of Letters & Science Requirements**

**I. English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.*

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

*Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.*

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.
Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Microbiology Major Requirements**
Microbiology is the study of microorganisms such as bacteria, archaea, protists, fungi, and viruses. Prospective Microbiology majors should consult with a faculty advisor as early as possible, preferably before the beginning of the junior year, in order to outline an appropriate course of study. Students should consult their advisor at least once each semester.

There are two options within the Microbiology major:

- Microbiology Standard Option
- Industrial Fermentation and Biotechnology Option

The Industrial Fermentation and Biotechnology Option is offered jointly with the Department of Chemistry and Biochemistry. For both options, at least 15 credits of advanced (300 and above) Microbiology courses must be taken in residence at UWM. Students must attain an average GPA of 2.500 in Microbiology courses attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

**Microbiology Standard Option**
The Microbiology option requires a minimum of 34 credits in Microbiology. The required and elective courses in Biological Sciences, CHEM 501, and BMS 534, BMS 535, BMS 539, and BMS 540 count as "Microbiology" courses for this purpose. A combined limit of 6 credits in BIO SCI 290, BIO SCI 695, BIO SCI 697, BIO SCI 698, and BIO SCI 699 counts toward the major.

**Research Requirement**
Select credits in the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 495</td>
<td>Internship in Biotechnology, Upper Division</td>
<td></td>
</tr>
</tbody>
</table>
Additional Electives

Students choose courses from this list to complete their 26 credits of upper-level (300 or above) microbiology courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 405</td>
<td>General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 490</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 507</td>
<td>Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 535</td>
<td>Bacterial Pathogenesis</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 536</td>
<td>Applied Microbiology and Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 537</td>
<td>Industrial Microbiology and Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 542</td>
<td>Biological Electron Microscopy</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 544</td>
<td>Transmission Electron Microscopy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 572</td>
<td>Functional Genomics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 573</td>
<td>Cellular Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 580</td>
<td>Experimental Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 597</td>
<td>RNA Structure, Function, and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td>3</td>
</tr>
<tr>
<td>BMS 534</td>
<td>Medical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 535</td>
<td>Medical Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BMS 539</td>
<td>Public Health Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>BMS 540</td>
<td>Public Health Microbiology Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

1 Only BIO SCI 699 or HONORS 686, HONORS 687, or HONORS 689 projects that are determined by the student's microbiology faculty advisor to have microbiology content count toward the major.

2 Students may elect to take these BMS courses to earn credit toward the Microbiology major option provided that they earn 30 advanced credits in Natural Sciences within the College of Letters and Science, as required for the BS degree.

Industrial Fermentation and Biotechnology Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 529</td>
<td>Molecular Biology of Microorganisms</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 536</td>
<td>Applied Microbiology and Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 537</td>
<td>Industrial Microbiology and Biochemistry Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

1 When determined by the student's Microbiology faculty advisor to have Microbiology content.
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Department Advising

Students should contact an advisor (uwm.edu/biology/undergraduate/advising/ (http://uwm.edu/biology/undergraduate/advising)) as soon as possible in their freshman year about required courses and the recommended course sequence within Biological Sciences programs. The student should attend fall or spring departmental Open Advising or contact a Department of Biological Sciences faculty advisor (uwm.edu/biology/undergraduate/advising/ (http://uwm.edu/biology/undergraduate/advising)) who will then guide the student in planning his/her course choices to accomplish his/her goals. Students should consult their College academic advisors in Holton Hall and their faculty advisors in the Department of Biological Sciences prior to each registration period.

### Major or Minor Declaration:

Biological Sciences students should complete Bio Sci 150 and be enrolled in Bio Sci 152 before officially declaring a major in Biological Sciences. Students can declare a major or minor by contacting a faculty advisor in Biological Sciences or attending fall or spring departmental Open Advising. Students can declare more than one major or a combination of major and minors (uwm.edu/biology/undergraduate/declare-majorminor/ (http://uwm.edu/biology/undergraduate/declare-majorminor)).

### Failure to complete a declaration of major may result in a delay in graduation.

### Honors in the Major

Students in biological sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major;
Complete a laboratory or field research independent study (BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in biological sciences should apply to the Department during their last semester of study.

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, biosci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/biology/undergraduate/major-in-microbiology/

Microbiology, BS
Microorganisms were the first living things on Earth, and they remain the most abundant and the most diverse of all organisms. Microorganisms cause diseases of plants, animals and humans, and play critical roles in biogeochemical cycles and bioremediation, and are also important in the food and biotechnology industries.

As a microbiologist, students will be on the cutting edge of developments in industrial production processes, public health, biotechnology, and drug discovery. The Microbiology major prepares students for a variety of careers in the fields of microbiology, molecular biology, biotechnology, and health related professions, and for graduate and professional studies in areas such as medical microbiology, industrial microbiology, environmental microbiology, microbial biotechnology, and molecular biology.

Course of Study – Bachelor of Science Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Arts

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 3 credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Humanities

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Social Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Natural Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 6 credits (At least two courses including one lab)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement
College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required. Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a
2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement.**
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Microbiology Major Requirements**
Microbiology is the study of microorganisms such as bacteria, archaea, protists, fungi, and viruses. Prospective Microbiology majors should consult with a faculty advisor as early as possible, preferably before the beginning of the junior year, in order to outline an appropriate course of study. Students should consult their advisor at least once each semester.

There are two options within the Microbiology major:

- Microbiology Standard Option
- Industrial Fermentation and Biotechnology Option

The Industrial Fermentation and Biotechnology Option is offered jointly with the Department of Chemistry and Biochemistry. For both options, at least 15 credits of advanced (300 and above) Microbiology courses must be taken in residence at UWM. Students must attain an average GPA of 3.000 in Microbiology courses attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

**Microbiology Standard Option**
The Microbiology option requires a minimum of 34 credits in Microbiology. The required and elective courses in Biological Sciences, CHEM 501, and BMS 534, BMS 535, BMS 539, and BMS 540 count as "Microbiology" courses for this purpose. A combined limit of 6 credits in BIO SCI 290, BIO SCI 695, BIO SCI 697, BIO SCI 698, and BIO SCI 699 counts toward the major.

**Microbiology Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>2-4</td>
</tr>
<tr>
<td>BIO SCI 537</td>
<td>Industrial Microbiology and Biochemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 580</td>
<td>Experimental Microbiology</td>
<td></td>
</tr>
</tbody>
</table>

Select additional elective credits (see below)

**Other Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
</tr>
</tbody>
</table>

Select one of the following: 4-5

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
</tr>
</tbody>
</table>

Select one of the following: 3-5

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 222</td>
<td>Honors Calculus II</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
</tr>
</tbody>
</table>

Select one of the following options: 9-10

**Option 1:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 122</td>
<td>General Physics II (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 123</td>
<td>General Physics Laboratory II (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
</tbody>
</table>

**Option 2:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 215</td>
<td>Lab Physics II (Calculus Treatment)</td>
<td>5</td>
</tr>
</tbody>
</table>

**Option 3:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Physics II: Calculus-Based, Studio Format</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits: 61-67

1. When determined by the student’s Microbiology faculty advisor to have Microbiology content.

**Additional Electives**
Students choose courses from this list to complete their 26 credits of upper-level (300 or above) microbiology courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
<td>2</td>
</tr>
</tbody>
</table>
Industrial Fermentation and Biotechnology Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 405</td>
<td>General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 490</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 507</td>
<td>Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 535</td>
<td>Bacterial Pathogenesis</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 536</td>
<td>Applied Microbiology and Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 537</td>
<td>Industrial Microbiology and Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology (if not selected above)</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 542</td>
<td>Biological Electron Microscopy</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 544</td>
<td>Transmission Electron Microscopy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 572</td>
<td>Functional Genomics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 573</td>
<td>Cellular Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 580</td>
<td>Experimental Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 597</td>
<td>RNA Structure, Function, and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td>3</td>
</tr>
<tr>
<td>BMS 534</td>
<td>Medical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 535</td>
<td>Medical Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BMS 539</td>
<td>Public Health Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>BMS 540</td>
<td>Public Health Microbiology Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

1 Only BIO SCI 699 or HONORS 686, HONORS 687, or HONORS 689 projects that are determined by the student's microbiology faculty advisor to have microbiology content count toward the major.

2 Students may elect to take these BMS courses to earn credit toward the Microbiology major option provided that they earn 30 advanced credits in Natural Sciences within the College of Letters and Science, as required for the BS degree.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your
assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Department Advising

Students should contact an advisor (uwm.edu/biology/undergraduate/advising) as soon as possible in their freshman year about required courses and the recommended course sequence within Biological Sciences programs. The student should attend fall or spring departmental Open Advising or contact a Department of Biological Sciences faculty advisor (uwm.edu/biology/undergraduate/advising) who will then guide the student in planning his/her course choices to accomplish his/her goals. Students should consult their College academic advisors in Holton Hall and their faculty advisors in the Department of Biological Sciences prior to each registration period.

### Major or Minor Declaration

Biological Sciences students should complete Bio Sci 150 and be enrolled in Bio Sci 152 before officially declaring a major in Biological Sciences. Students can declare a major or minor by contacting a faculty advisor in Biological Sciences or attending fall or spring departmental Open Advising. Students can declare more than one major or a combination of major and minors (uwm.edu/biology/undergraduate/declare-majorminor).

Failure to complete a declaration of major may result in a delay in graduation.

### Honors in the Major

Students in biological sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study (BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in biological sciences should apply to the Department during their last semester of study.

### Honors in the College of Letters and Science

#### Dean's Honor List

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

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

#### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

#### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Contact Information

Current Students contact the Department directly, biosci@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/biology/undergraduate/major-in-microbiology/
BUSINESS AND TECHNICAL COMMUNICATIONS, UNDERGRADUATE CERTIFICATE

In today's uncertain economy, it is more important than ever for workers to be multi-skilled and flexible in their professional areas. The Business and Technical Communications Undergraduate Certificate combines an innovative approach with practical skills in writing, research, communication, and technologies that will enable students to improve their skills for working in a broad range of contexts.

Students will develop competencies in communication that are critical to a wide range of contemporary jobs and organizations:

- Business and technical communication
- Strategic writing skills
- Organizational leadership skills
- Information design
- Project management

The Certificate is available in a traditional face-to-face and online format, and is also available via the University of Wisconsin System's Flexible Option. The UW Flexible Option offers a new way to earn a college degree or certificate, different from both face-to-face classroom instruction and traditional online instruction (http://flex.wisconsin.edu/competency-based-education-what-it-is-how-its-different-and-why-it-matters-to-you). In the UW Flexible Option program, you will:

- Earn credit for what you know
- Advance at your own pace
- Receive personalized support
- Start when you want, at the beginning of any month
- Learn skills employers value

Eligibility

Students who wish to enroll in the Undergraduate Certificate must be admitted to UWM and will have to meet the basic prerequisites of the courses that are equivalent to each given competency set. For ENGLISH 206, that will mean having passed or tested out of ENGLISH 102. All other courses in the Certificate require ENGLISH 206 as a prerequisite. Students concurrently completing a bachelor's degree receive the Certificate upon completion of their degree requirements; post-baccalaureate special students and non-degree students will be awarded the Certificate upon successful completion of all program requirements.

Program Requirements

To obtain the certificate, students first must complete ENGLISH 206, after which they may study the additional competency sets in any order. Completing the Undergraduate Certificate means having gained credit in all six courses, with a minimum grade point average of 2.500. Students also must meet College of Letters and Science residency requirements, which means that at least nine of their Certificate upper-level (numbered 300 and above) credits must be earned at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 428</td>
<td>Strategic Writing for Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 429</td>
<td>Technical Communications and Professional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing, Professional and Technical Communications</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 437</td>
<td>Project Management for Professional Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact Associate Professor Rachel Spilka, spilka@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/english/undergraduate/undergraduate-major-tracks/professional-and-technical-communications/uw-flexible-option/
CELTIC STUDIES

Celtic Studies examines the history, culture, and languages of the Celtic region.

The Center for Celtic Studies provides interdisciplinary, international educational opportunities for UWM students. Our program includes on-campus instruction by UWM and visiting international faculty, as well as study-abroad options in Ireland, Great Britain, and Europe. We provide a wide range of course and research topics relating to cultures—both historical and modern—that share Celtic influence: the early Continental Celts and the Breton, Cornish, Galician, Irish, Manx, Scots, and Welsh peoples.

Students can concentrate their studies on the Celtic languages, both spoken and written, or they may choose to investigate the broader themes of the Celtic world, such as art, archaeology, literature, history, folklore, music and myth.

Programs

• Celtic Studies, Undergraduate Certificate (p. 1090)

Celtic Studies Courses

CELTIC 103 First Semester Gaelic
3 cr. Undergraduate.
Beginning Gaelic for students with no previous knowledge of the language. Counts as repeat of Linguis 131 with ‘First Semester Gaelic’ subtitle.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CELTIC 104 Second Semester Gaelic
3 cr. Undergraduate.
Continuation of Celtic 103(Linguis 181).
Prerequisites: Celtic 103(Linguis 181)(P).
Course Rules: Counts as repeat of Linguis 132 with ‘Second Semester Gaelic’ subtitle.
Current Offerings: http://uwm.edu/schedule

CELTIC 133 Celtic Crossings: Overview of the History and Cultures of the Celtic World
3 cr. Undergraduate.
Interdisciplinary exploration of the archaeology, history, literature, language, myth, and arts of the Celtic peoples (Cornish, Irish, Scots, Welsh, Manx, Breton, & Galician).
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CELTIC 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2011, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

CELTIC 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

CELTIC 199 Independent Study
1-3 cr. Undergraduate.
Independent work supervised by Celtic Studies faculty or staff member. Written course proposal required prior to reg. For additional information, consult prog coord.
Prerequisites: 2.50 gpa on at least 12 graded cr; writ cons instr & prog coord.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

CELTIC 203 Third Semester Gaelic
3 cr. Undergraduate.
Continuation of Celtic 104 (Linguis 182).
Prerequisites: Celtic 104(Linguis 182)(P).
Course Rules: Counts as repeat of Linguis 231 with ‘Irish (Gaelic)’ subtitle.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

CELTIC 204 Fourth Semester Gaelic
3 cr. Undergraduate.
Continuation of Celtic 203(Linguis 281).
Prerequisites: Celtic 203(Linguis 281)(P).
Course Rules: Counts as repeat of Linguis 232 with ‘Irish (Gaelic)’ subtitle.
Current Offerings: http://uwm.edu/schedule

CELTIC 250 Selected Topics in Celtic Studies:
3 cr. Undergraduate.
Focus on an individual Celtic group or one particular aspect of Celtic culture.
Prerequisites: none.
Course Rules: Not open to students with cr in Ethnic 250 with similar topic. Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
Celtic Studies, Undergraduate Certificate

Celtic Studies examines the history, culture, and languages of the Celtic region.

The Undergraduate Certificate in Celtic Studies is open to all students interested in learning about the history, folklore, art, language, and culture of Ireland, Scotland, and Wales. The features of the region are explored from both a historical perspective and through a modern day lens. The certificate complements a number of different majors such as history, political science, English, anthropology, and art history, and can make graduates more marketable for international careers and graduate programs.

Certificate complements a number of different majors such as history, political science, English, anthropology, and art history, and can make graduates more marketable for international careers and graduate programs.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Undergraduate Certificate Program in Celtic Studies is open to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. All students will receive the certificate upon successful completion of the program requirements.
Requirements

To obtain the certificate, students must complete 18 credits in required courses with a minimum GPA of 2.750, including CELTIC 133 and at least 9 credits in upper-division (numbered 300 and above) courses selected from Celtic courses and/or the list of approved electives. At least half the credits for the certificate must be taken in residence at UWM. All students are urged to participate in a study abroad program. Credits earned via study abroad through a UWM-sponsored program count as residence credits. No more than 9 credits from a single curricular area may count toward the certificate requirements, and students must select courses from at least three different curricular areas in completing their requirements.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the certificate program committee.

Students elect one of the following options:

Option A: Language Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELTIC 133</td>
<td>Celtic Crossings: Overview of the History and Cultures of the Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>CELTIC 203</td>
<td>Third Semester Gaelic</td>
<td>3</td>
</tr>
<tr>
<td>CELTIC 204</td>
<td>Fourth Semester Gaelic</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select at least 9 additional credits numbered 300 or above from Celtic courses and/or the approved Celtic studies electives list

Total Credits 18

Option B: Cultural Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELTIC 133</td>
<td>Celtic Crossings: Overview of the History and Cultures of the Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>CELTIC 103</td>
<td>First Semester Gaelic</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select at least 12 additional credits from Celtic courses and/or the approved Celtic studies electives list

Recommended

Students in the cultural emphasis are encouraged, but not required, to take the following course:

| CELTIC 104 | Second Semester Gaelic                                     |         |

Total Credits 18

Approved Celtic Studies Electives

Students may select from all Celtic courses or any of the following courses offered in other areas.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 305</td>
<td>The Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 306</td>
<td>European Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 381</td>
<td>Honors Seminar. (The Celtic World)</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions: Ireland's English Problem</td>
<td>2-3</td>
</tr>
</tbody>
</table>

Subtitles:

Irish Dance History and Practice
Irish Theatre: A Sense of Place
20th Century Irish Theatre and Consequence of Place

Contact Information
Current Students contact Lecturer Bairbre Ni Chiardha, bairbre@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Celtic+Studies
CHEMISTRY AND BIOCHEMISTRY

While our faculty are internationally recognized in all of the major divisions of chemistry, our department is particularly strong in Medicinal Chemistry, Biochemistry, and Surface Science. We are a midsized department where students receive advanced training and carry out cutting-edge research that crosses the bounds of traditional chemistry into the fields of physics, materials, life science and science education.

Programs

- Biochemistry, BA (p. 1101)
- Biochemistry, BS (p. 1106)
- Chemistry, BA (p. 1111)
- Chemistry, BS (p. 1116)
- Chemistry, Minor (p. 1121)
- Chemistry, MS (p. 1122)
- Chemistry, PhD (p. 1123)
- Course in Chemistry, BS (p. 1124)
- Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 1128)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 1129)
- Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 1129)

Chemistry and Biochemistry Courses

CHEM 100 Chemical Science
4 cr. Undergraduate.
Introductory course in general inorganic chemistry designed for the student with little or no previous science training. 3 hrs lec, 1 hr dis.
Prerequisites: Math 105(C) or Math 108(C) or Math 116(C) or Level 30 on Math Placement Test.
Course Rules: Not open for cr to students who have cr in Chem 102.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

CHEM 101 Chemical Science
5 cr. Undergraduate.
Introductory chemistry with an emphasis on organic chemistry and selected aspects of general chemistry. 3 hrs lec, 2 hrs lab, 1 hr dis.
Prerequisites: a score of 1 on the chem placement test, & Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or a grade of C or better in Chem 100(P).
Course Rules: Designed for students in nursing and related fields. Not open for cr to students who have cr in Chem 341 or 343; may not serve as prereq for Chem 341 or 343.
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 102 General Chemistry
5 cr. Undergraduate.
Introductory college chemistry. Modern fundamental principles of chemistry, with emphasis on the chemistry of nonmetals. 3 hrs lec, 3 hrs lab, 1 hr dis.
Prerequisites: score of 1 on chem placement test, & Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or min grade C in Chem 100(P).
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

CHEM 103 Survey of Biochemistry
5 cr. Undergraduate.
The nature of materials of biological systems. 3 hrs lec, 1 hr dis, 3 hrs lab.
Prerequisites: grade of C or better in Chem 101(P).
Course Rules: Designed for students in nursing and related fields. Not open for cr to chem majors; may not serve as a prereq for Chem 341 or 343.
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 104 General Chemistry and Qualitative Analysis
5 cr. Undergraduate.
Continuation of Chem 102. 3 hrs lec, 3 hrs lab, 1 hr dis.
Prerequisites: grade C or better in Chem 102(P).
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

CHEM 105 General Chemistry for Engineering
5 cr. Undergraduate.
Modern principles of chemistry with emphasis on applications in engineering fields.
Prerequisites: score of 1 on chem placement test, Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or in grade C in Chem 100(P).
Course Rules: Not open to those w/cr in Chem 104(ER). Not a prereq for Chem 221, 341, or 343.
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 106 Chemistry in the World Around Us--Chemistry for the Non-Science Major
3 cr. Undergraduate.
An introduction to chemistry with an emphasis on outlining how chemistry affects our everyday lives. 3 hrs lec, 2 hrs lab/dis.
Prerequisites: none.
Course Rules: Intended for non-science majors and minors; does not carry cr toward chem or biochem majors or chem minor.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule
CHEM 185 Basic Chemistry for Teachers
3 cr. Undergraduate.
Chemical models, atoms, and molecules; properties of elements; useful chemical reactions; application to elementary education classrooms. 2 hrs lec; 2 hrs lab/dis.
Prerequisites: Math 176(P) or cons instr.
General Education Requirements: NS+
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 194 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Last Taught: Fall 2016, Fall 2015, Fall 2002, Fall 2001.
Current Offerings: http://uwm.edu/schedule

CHEM 210 Introduction to Fermentation Chemistry
3 cr. Undergraduate.
Concepts of chemistry in the context of fermentation. The ideas of mass balance, equilibrium, rate and catalysis are applicable to fermentation.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

CHEM 221 Elementary Quantitative Analysis
4 cr. Undergraduate.
Introduction to modern chemical analysis, including volumetric, gravimetric, electrochemical, and chromatographic methods. 2 hrs lec, 6 hrs lab.
Prerequisites: a grade of C or better in Chem 104(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 281 Dead Men Do Tell Tales: An Introduction to Forensic Science
3 cr. Undergraduate.
A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.
Prerequisites: none.
Course Rules: Jointly offered with & counts as repeat of Anthro/BMS(C L Sci)/Crm Jst 281.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 285 Medicolegal Death Investigation
3 cr. Undergraduate.
Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.
Prerequisites: none.
Course Rules: Jointly-offered with & counts as repeat of Anthro/BMS(C L Sci)/Crm Jst 285.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

CHEM 289 Internship in Chemistry, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of chemistry in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in chem; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

CHEM 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CHEM 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CHEM 311 Introduction to Inorganic Chemistry
3 cr. Undergraduate.
Inorganic chemistry; solid state chemistry, coordination chemistry, main-group chemistry.
Prerequisites: grade of C or better in Chem 104(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 341 Introductory Survey of Organic Chemistry
3 cr. Undergraduate.
Intended for students who expect to take only one semester of organic chemistry.
Prerequisites: grade of C or better in Chem 104(P); conc reg in Chem 342(R).
Course Rules: Not open for cr to students who have credit in Chem 343.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 342 Introductory Organic Chemistry Laboratory
2 cr. Undergraduate.
6 hrs lab.
Prerequisites: a grade of C or better in Chem 104(P); conc reg in Chem 341(R).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 343 Organic Chemistry
3 cr. Undergraduate.
For students who intend to take more than one semester of organic chemistry.
Prerequisites: grade of C or better in Chem 104(P).
Course Rules: Not open for cr to students who have credit in Chem 341.
Current Offerings: http://uwm.edu/schedule
CHEM 344 Organic Chemistry Laboratory
2 cr. Undergraduate.
6 hr lab.
Prerequisites: grade C or better Chem 343(P); conc reg Chem 345(R).
Course Rules: Not open for cr to students who have credit in Chem 342.
Current Offerings: http://uwm.edu/schedule

CHEM 345 Organic Chemistry
3 cr. Undergraduate.
Continuation of Chem 343.
Prerequisites: grade of C or better in Chem 343(P); conc reg Chem 344(R).
Current Offerings: http://uwm.edu/schedule

CHEM 381 Honors Seminar:
3 cr. Undergraduate.
Discussion of aspects of the relationship of chemistry and society.
Prerequisites: soph st; Honors 200(P); cons Honors College dir; add'l prereq possible depending on specific topic.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 399 Special Chemical Problems:
1-4 cr. Undergraduate.
Directed study or research on topics selected by the instructor.
Prerequisites: Chem 104(P); cons instr.
Course Rules: May be retaken to 7 cr max.
Current Offerings: http://uwm.edu/schedule

CHEM 481 Criminalistics
3 cr. Undergraduate.
Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.
Prerequisites: jr st; Admis to Forensic Sci cert prog; Anthro/Chem/C L Sci/Crm Jst 281(P); Crm Jst 480(P).
Course Rules: Anthro 481, Chem 481, BMS(C L Sci) 481, & Crm Jst 481 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

CHEM 489 Internship in Chemistry, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of chemistry in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Chem; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

CHEM 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CHEM 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CHEM 501 Introduction to Biochemistry
3 cr. Undergraduate/Graduate.
The chemistry of biological systems.
Prerequisites: jr st; grade of C or better in Chem 221(P) or 223(P), & Chem 341(P) or 343(P).
Course Rules: Does not count toward graduate degree in chemistry.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 502 Development of Modern Chemistry
2 cr. Undergraduate/Graduate.
Traces the development of chemistry from ancient to modern times.
Prerequisites: jr st; a grade of C or better in Chem 221(P) or 223(P), & Chem 341(P) or 343(P).
Course Rules: Does not count toward graduate degree in Chemistry.
Current Offerings: http://uwm.edu/schedule

CHEM 511 Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Introduction to theoretical principles and descriptive chemistry of the elements.
Prerequisites: jr st.
Course Rules: Does not count toward a graduate degree in Chemistry.
Current Offerings: http://uwm.edu/schedule

CHEM 524 Instrumental Analysis
3 cr. Undergraduate/Graduate.
Chemical equilibria, separations, and theory and practice of instrumental measurements.
Prerequisites: jr st; grade of C or better in Chem 221(P) or 223(P).
Course Rules: Does not count toward a graduate degree in chemistry.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 537 Industrial Microbiology and Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments using industrial fermentation approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques.
Course Rules: Bio Sci 537 & Chem 537 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule
CHEM 541 Bioprocess Chemical Engineering
3 cr. Undergraduate.
Technical aspects of biotechnology and fermentation based on reactor design and function.
Prerequisites: jr st; grade of C or better in Chem 501 (P).
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

CHEM 543 Bioproduct Regulatory Protocols Laboratory
3 cr. Undergraduate/Graduate.
Experiments in the production, purification, and characterization of biopharmaceuticals for the treatment of human disease in compliance with ICH and FDA guidelines.
Prerequisites: jr st; Chem/Bio Sci 537 (P); Chem 541 (P); Chem 501 (P).
Current Offerings: http://uwm.edu/schedule

CHEM 560 Biophysical Chemistry
3 cr. Undergraduate/Graduate.
General course designed for majors in fields other than chemistry.
Prerequisites: jr st; grade of C or better in Chem 104 (P); Math 211 (P) or equiv.
Course Rules: Does not count toward a graduate degree in chemistry.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 561 Physical Chemistry I
3 cr. Undergraduate/Graduate.
Primary focus on chemical thermodynamics.
Prerequisites: jr st; grades of C or better in Chem 104 (P), Physics 210 (P) & 215 (P), & Math 233 (P); ElecEng 234 (R) or Math 234 (R).
Course Rules: Does not count toward a graduate degree in chemistry.
Current Offerings: http://uwm.edu/schedule

CHEM 562 Physical Chemistry II
3 cr. Undergraduate/Graduate.
Continuation of Chem 561; course content is largely kinetics, statistical mechanics, and quantum chemistry.
Prerequisites: jr st; grade of C or better in Chem 561 (P).
Course Rules: Does not count toward a graduate degree in chemistry.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 563 Physical Chemistry Laboratory
1-2 cr. Undergraduate/Graduate.
Prerequisites: jr st & grade of C or better in Chem 221 (P) or 223 (P) & Chem 561 (P).
Course Rules: Carries grad cr for students other than chem students.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 582 Advanced Chemistry Laboratory I
2 cr. Undergraduate.
Modern advanced chemical synthesis techniques.
Prerequisites: grade of C or better in Chem 344 (P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 584 Advanced Chemistry Laboratory II
2 cr. Undergraduate.
Advanced laboratory for analysis and characterization of chemical compounds.
Prerequisites: grade of C or better in Chem 344 (P), 524 (P), & 563 (P).
Current Offerings: http://uwm.edu/schedule

CHEM 585 Internship in Forensic Toxicology
1-3 cr. Undergraduate.
Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281 (P) & 285 (P); Chem 221 (P) or 223 (P); Crm Jst 480 (P); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

CHEM 589 Internship in Death Investigation
1-3 cr. Undergraduate.
Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.
Prerequisites: jr st; admis to Forensic Sci certif prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281 (P); Chem 221 (P) or 223 (P); Crm Jst 480 (P); BMS(C L Sci) 620 (R); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 589 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2012, Fall 2002.
Current Offerings: http://uwm.edu/schedule

CHEM 594 Internship in Forensic Science
1-3 cr. Undergraduate.
On-site shadowing of evidence analyst at State Crime Laboratory.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281 (P); Chem 221 (P) or 223 (P); Crm Jst 480 (P); Hepatitis B vaccine series or waiver.
Course Rules: Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

CHEM 599 Special Projects in Chemistry
3-5 cr. Undergraduate/Graduate.
Directed study or research on subjects selected by the instructor. For further information consult dept chair.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 7 cr max. Does not count toward a graduate degree in chemistry.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CHEM 601 Biochemistry: Protein Structure and Function
3 cr. Undergraduate/Graduate.
Cellular synthesis of proteins, protein structure/function, enzyme mechanisms.
Prerequisites: jr st; grades of C or better in Chem 345 (P), 501 (P), & either 560 (C) or 562 (C).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
CHEM 602 Biochemistry: Cellular Processes
3 cr. Undergraduate/Graduate.
Biosynthesis and metabolism of nucleic acids, structure and replication of DNA, control of gene expression, signal transduction.
Prerequisites: jr st; grade of C or better in Chem 501(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

CHEM 603 Introduction to Biochemistry Laboratory
2 cr. Undergraduate/Graduate.
Experiments in biological preparations, colorimetry, chromatography, and radioisotope techniques.
Prerequisites: jr st; grades of C or better in Chem 221(P) or 223(P) & in Chem 501(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 604 Biochemistry: Metabolism
3 cr. Undergraduate/Graduate.
Glycolysis, photosynthesis, biosynthesis, metabolism.
Prerequisites: jr st; grade of C or better in Chem 501(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

CHEM 611 Physical Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Physical and theoretical aspects of inorganic chemistry (spectroscopy, crystallography, kinetic and theoretical methods) are discussed.
Prerequisites: Chem 511(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

CHEM 612 Transition Metal and Organometallic Chemistry
3 cr. Undergraduate/Graduate.
Advanced survey of elements, emphasizing transition elements and organometallic species. Main group organometallics and actinides and lanthanides briefly discussed.
Prerequisites: Chem 511(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

CHEM 613 Main Group Chemistry
3 cr. Undergraduate/Graduate.
Advanced survey of metallic and non-metallic main group elements.
Prerequisites: jr st & grade of C or better in Chem 511(P); or grad st.
Current Offerings: http://uwm.edu/schedule

CHEM 614 Bio-Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Inorganic chemistry for biological systems; metalloproteins; coordination chemistry in enzymes.
Prerequisites: jr st; grade of C or better in Chem 511(P).
Current Offerings: http://uwm.edu/schedule

CHEM 628 Nuclear and Radiochemistry
3 cr. Undergraduate/Graduate.
Survey of modern nuclear and radiochemistry; emphasis on the interactions of radiation with matter and application in radiation detection and measurement.
Prerequisites: jr st.; grades of B or better in Chem 524(P), 561(P), 562(P), & 563(P) or equiv; cons instr for undergrads.
Course Rules: Counts as repeat of Chem 726 w/same topic.
Current Offerings: http://uwm.edu/schedule

CHEM 630 Computational Chemistry
3 cr. Undergraduate/Graduate.
Computer modeling techniques for molecular systems.
Prerequisites: jr st; grade of C or better in Chem 562(P) or cons instr.
Last Taught: Fall 2014, Fall 2012, Fall 2010, Spring 2003.
Current Offerings: http://uwm.edu/schedule

CHEM 640 Advanced Survey of Organic Chemistry
3 cr. Undergraduate/Graduate.
Application of modern instrumental methods to the separation, analysis, and identification of organic compounds.
Prerequisites: jr st; a grade of C or better in Chem 345(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 647 Physical Methods of Organic Chemistry
3 cr. Undergraduate/Graduate.
Application of modern instrumental methods to the separation, analysis, and identification of organic compounds.
Prerequisites: jr st; a grade of C or better in Chem 345(P), 346(P), 524(P).
Last Taught: Spring 2015, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

CHEM 650 Physical Inorganic Chemistry
3 cr. Undergraduate/Graduate.
Prerequisites: sr st; a grade of C or better in Chem 562(P).
Last Taught: Fall 2014, Fall 2013, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

CHEM 661 Intermediate Chemical Thermodynamics
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; grade of C or better in Chem 562(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 662 Chemical Kinetics and Dynamics
3 cr. Undergraduate/Graduate.
Present understanding of reaction kinetics and dynamics. Topics range from experimental methods for kinetics measurements to microscopic theories of reaction rates.
Prerequisites: sr st; grade of C or better in Chem 562(P).
Last Taught: Fall 2017, Fall 2016, Fall 2014, Spring 2013.
Current Offerings: http://uwm.edu/schedule

CHEM 690 Scientist Career Transitions Seminar
1 cr. Undergraduate.
Preparation of science undergraduates for transition to science-related employment internships.
Prerequisites: soph st; Chem 344(C) & 345(C) or equiv; 3.000 GPA in science courses; cons instr.
Course Rules: Counts as repeat of Chem 489 with similar topic.
Current Offerings: http://uwm.edu/schedule
CHEM 691 Senior Research
1-4 cr. Undergraduate.
Introduction to chemical research. Independent and original study done under the direction of a staff member; communication of results. Recom for Chem majors.
Prerequisites: sr st; cons instr.
Course Rules: May be retaken with change in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

CHEM 692 Senior Thesis
2-6 cr. Undergraduate.
Introduction to chemical research. Independent and original study done under the direction of a staff member. Recom for chem majors.
Prerequisites: sr st; grade of C or better in English 102(P) or score at level 4 on EPT; cons instr.
Course Rules: May be retaken with change in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

CHEM 697 Senior Seminar
1 cr. Undergraduate.
Prerequisites: sr st.
Current Offerings: http://uwm.edu/schedule

CHEM 701 Topics in Biochemistry:
2-4 cr. Graduate.
Selected topics in biochemistry. Two topics, each for 2 cr, will last 1/2 of the semester. Students may enroll in either (2 cr) or both (4 cr). The 3 cr option offers a more complete coverage of a single topic for a full semester.
Prerequisites: grad st; grade of C or better in Chem 501(P) or 601(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

CHEM 702 Advanced Survey of Inorganic Chemistry
3 cr. Graduate.
Graduate-level treatment of theoretical principles and descriptive chemistry of the elements.
Prerequisites: grad st.
Last Taught: Fall 2010, Fall 2008, Fall 2007, Fall 2006.
Current Offerings: http://uwm.edu/schedule

CHEM 710 Advanced Survey of Inorganic Chemistry
3 cr. Graduate.
Graduate-level treatment of theoretical principles and descriptive chemistry of the elements.
Prerequisites: grad st.
Last Taught: Fall 2010, Fall 2008, Fall 2007, Fall 2006.
Current Offerings: http://uwm.edu/schedule

CHEM 711 Topics in Inorganic Chemistry:
3 cr. Graduate.
Selected topics of current research interest in inorganic chemistry are discussed in detail.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Spring 2015, Fall 2013, Fall 2005.
Current Offerings: http://uwm.edu/schedule

CHEM 712 Physical Organic Chemistry
3 cr. Graduate.
Survey of modern electrochemical theory and applications to measurement of solution concentrations, rate constants, thermodynamic quantities, transport properties, and adsorption phenomena.
Prerequisites: grad st; grade of C or better in Chem 524(P) or 621(P).
Current Offerings: http://uwm.edu/schedule

CHEM 724 Electrochemistry
3 cr. Graduate.
Survey of modern electrochemical theory and applications to measurement of solution concentrations, rate constants, thermodynamic quantities, transport properties, and adsorption phenomena.
Prerequisites: grad st; grade of C or better in Chem 524(P) or 621(P).
Current Offerings: http://uwm.edu/schedule

CHEM 726 Topics in Analytical Chemistry:
3 cr. Graduate.
Selected topics which reflect current advances in analytical chemistry.
Prerequisites: grad st.
Course Rules: May be retaken with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

CHEM 740 Advanced Organic Chemistry-Methods in Synthetic Chemistry
3 cr. Graduate.
Discussion of name reactions and other synthetic methods of preparative significance used in organic syntheses. Introduction and modification of functional groups. Recent examples of application from modern organic chemistry.
Prerequisites: grad st; a grade of C or better in Chem 345(P).
Current Offerings: http://uwm.edu/schedule

CHEM 741 Topics in Organic Chemistry:
2-3 cr. Graduate.
Current topics in organic chemistry, e.g., organometallic compounds, bioorganic chemistry, non-covalent interactions, reaction mechanisms, alkaloid total synthesis or photochemistry. Offered w/1 topic (3cr), w/2 (2cr ea); if two, take one or both.
Prerequisites: grad st; grade of C or better in Chem 501(P) or 601(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

CHEM 742 Topics in Organic Chemistry:
2-3 cr. Graduate.
Current topics in organic chemistry, e.g., organometallic compounds, bioorganic chemistry, non-covalent interactions, reaction mechanisms, alkaloid total synthesis or photochemistry. Offered w/1 topic (3cr), w/2 (2cr ea); if two, take one or both.
Prerequisites: grad st; grade of C or better in Chem 501(P) or 601(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

CHEM 743 Medicinal Chemistry: Drug Discovery/Lead Optimization & DNA as Drug Targets
3 cr. Graduate.
Major principles of drug discovery; focus on nucleic acids as drug targets.
Prerequisites: grad st.
Course Rules: Counts as repeat of Chem 741 w/ Medicinal Chemistry I topic.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

CHEM 744 Medicinal Chemistry: Pharmacokinetics/Enzymes & Receptors as Drug Targets
3 cr. Graduate.
Principles of drug development; focus on protein drug targets.
Prerequisites: grad st.
Course Rules: Counts as repeat of Chem 741 w/ Medicinal Chemistry II subtitle.
Current Offerings: http://uwm.edu/schedule

CHEM 748 Physical Organic Chemistry
3 cr. Graduate.
Application of kinetics and other physical principles to the determination of reaction mechanisms.
Prerequisites: grad st; a grade of C or better in Chem 562(P) & 640(P).
Current Offerings: http://uwm.edu/schedule
CHEM 762 Topics in Physical Chemistry
3 cr. Graduate.
In-depth discussion of selected topics of current interest in modern physical chemistry.
Prerequisites: grad st.
Course Rules: Retakable with change in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2008, Spring 1996.
Current Offerings: http://uwm.edu/schedule

CHEM 765 Statistical Thermodynamics
3 cr. Graduate.
Fundamental principles of statistical mechanics, with applications to topics of physiochemical interest.
Prerequisites: grad st; grade of C or better in Chem 661(P).
Current Offerings: http://uwm.edu/schedule

CHEM 767 Basic Quantum Chemistry
3 cr. Graduate.
Basic postulates of quantum mechanics and consequences. Exact solutions for simple systems. Approximation methods for complex systems. Group theory and applications in organic, inorganic, and physical chemistry.
Prerequisites: grad st; a grade of C or better in Chem 562(P), 564(P), & Math 234(P).
Current Offerings: http://uwm.edu/schedule

CHEM 769 Surface Chemistry II
3 cr. Graduate.
Discussion of kinetic methods of studying reaction mechanisms with particular emphasis on catalytic reactions.
Prerequisites: grad st; grade of C or better in Chem 768(P).
Current Offerings: http://uwm.edu/schedule

CHEM 780 Modern Industrial Organic Chemistry
3 cr. Graduate.
Organic chemical processes - comprehensive emphasis on chemistry, polymers (preparation, properties, application), energy aspects, raw material supplies, impact on nation's and world's economics.
Prerequisites: grad st.
Course Rules: Recommended for minor in polymer chem.
Current Offerings: http://uwm.edu/schedule

CHEM 781 Pulsed NMR Spectroscopy Theory and Practice
3 cr. Graduate.
Discussion and hands on practice of modern FT NMR approaches applied to analysis of chemical structure and dynamics in organic, inorganic, and biochemical molecules.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 782 Liquid Chromatography-Mass Spectrometry Fundamentals and Applications
3 cr. Graduate.
Discussion and hands on practice of modern mass spectrometry, with a focus on liquid chromatography/mass spectrometry (LC/MS) and LC/tandem MS (LC/MS/MS), as well as ICP-MS.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

CHEM 798 Scientific Glassblowing
1 cr. Graduate.
Techniques in design and maintenance of scientific glassware including low pressure systems together with consideration of the chemical structure and properties of common glasses.
Prerequisites: grad st.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

CHEM 900 Chemistry Colloquium
0 cr. Graduate.
Weekly lectures on current research by members of the department and visiting scientists.
Prerequisites: grad st.
Course Rules: Fee assessed for 1 cr. Required of all Chem grad students.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

CHEM 912 Graduate Seminar
1 cr. Graduate.
Research problems in chemistry. Weekly papers and reports.
Prerequisites: grad st.
Course Rules: Required of all candidates for advanced degree.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 931 Advanced Seminar in Analytical Chemistry
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in analytical chemistry. Topics will differ each semester, reflecting current work of particular interest.
Prerequisites: grad st & enroll in Chem 993(C).
Course Rules: Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 932 Advanced Seminar in Biochemistry
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in biochemistry. Topics will differ each semester, reflecting current work of particular interest.
Prerequisites: grad st & enroll in Chem 996(C).
Course Rules: Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
CHEM 933 Advanced Seminar in Inorganic Chemistry
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in inorganic chemistry. Topics will differ each semester, reflecting current work of particular interest.
Prerequisites: grad st & enroll in Chem 994(C).
Course Rules: Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 934 Advanced Seminar in Organic Chemistry
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in organic chemistry. Topics will differ each semester, reflecting current work of particular interest.
Prerequisites: grad st & enroll in Chem 990(C).
Course Rules: Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 935 Advanced Seminar in Physical Chemistry
1 cr. Graduate.
Weekly discussions and reports on recent developments and current progress in physical chemistry. Topics will differ each semester, reflecting current work of particular interest.
Prerequisites: grad st & enroll in Chem 992.
Course Rules: Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 990 Research: Organic
1-9 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable.
Current Offerings: http://uwm.edu/schedule

CHEM 991 Research: Chemical Education
1-9 cr. Graduate.
Research in chemical education.
Prerequisites: grad st
Course Rules: Retakable.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CHEM 992 Research: Physical
1-9 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable.
Current Offerings: http://uwm.edu/schedule

CHEM 993 Research: Analytical
1-9 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable.
Current Offerings: http://uwm.edu/schedule

CHEM 994 Research: Inorganic
1-9 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable.
Current Offerings: http://uwm.edu/schedule

CHEM 995 Research: Biochemical
1-9 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
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<tbody>
<tr>
<td>Carolyn Aita</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>Ohio University</td>
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</tr>
<tr>
<td>Joseph H. Aldstadt</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Groningen, Netherlands</td>
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<tr>
<td>Alexander Arnold</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Utah</td>
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<tr>
<td>Dennis W. Bennett</td>
<td>Professor</td>
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<td>University of Duisburg, Germany</td>
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<tr>
<td>Anja Blecking</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Fudan University, PR China</td>
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<tr>
<td>Jian Chen</td>
<td>Associate Professor</td>
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<td>University of Michigan</td>
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<tr>
<td>James M. Cook</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Arizona</td>
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<tr>
<td>Mark Dietz</td>
<td>Professor</td>
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<td>The Johns Hopkins University</td>
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<tr>
<td>Benjamin Feinberg</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Bayreuth, Germany</td>
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<tr>
<td>David Frick</td>
<td>Professor</td>
<td>PhD</td>
<td>University of South Carolina</td>
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<tr>
<td>Peter Geissinger</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>University of Sao Paulo, Brazil</td>
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</tbody>
</table>
Biochemistry, BA

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area’s industrial and scientific community.

Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from five different curricular options in chemistry and biochemistry:

1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Chemistry Major with a Biochemical Option
4. Standard Biochemistry Major
5. Biochemistry Major with an Industrial Fermentation and Biotechnology Option
6. Biochemistry Major with a Clinical Pharmacology Option (BS only)

For any option, at least 15 credits must be taken in chemistry courses numbered 300 or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all credits attempted, including any transfer work. Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Biochemistry is a specialty within chemistry that focuses on the basic substances and elements that make up living creatures, including plants, animals and humans.

Biochemistry is a popular major for students preparing to go on to medical school, veterinary school, dental school or other similar healthcare professional programs that require a foundation in both biology and chemistry. However, students also pursue many other types of paths including lab research in areas related to water, healthcare, and manufacturing; forensics work for municipalities or agencies; agriculture; genetics; scientific writing and promotion; sales and marketing in science fields; food safety and production; legal consulting on scientific matters; pharmaceutical production; and more.

Graduate studies in Biochemistry can be found under the Chemistry and Biochemistry (http://uwm.edu/letters-science/programs/?classification=GRAD) department, with both a Master of Science and the terminal PhD available.
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
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<td><strong>Part A</strong></td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<td><strong>Part B</strong></td>
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<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
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<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
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<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
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<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
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<td>Or equivalent course</td>
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<td><strong>Part B</strong></td>
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<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
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<td><strong>Arts</strong></td>
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</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.*

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
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<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
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<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
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</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
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<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
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<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

*Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete*
the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>0-18</td>
</tr>
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</table>

Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)

Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Select 3 credits

Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *

Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Prerequisite Preparation for Majors in Chemistry and Biochemistry
General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one’s start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

Declaration of Major Requirements
To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.
Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

**Biochemistry Major Requirements**

The biochemistry major differs from the standard chemistry major with a biochemical option in a number of ways intended to provide for students a more intensive education in biochemistry so that they are prepared for work in the biochemical industry upon completing their baccalaureate degree. Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

There are two options in the biochemistry major:

- Biochemistry General Option
- Industrial Fermentation and Biotechnology Option (which is offered jointly with the Department of Biological Sciences)

**Requirements**

**Biochemistry General Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
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</tr>
<tr>
<td>&amp; CHEM 104</td>
<td>and General Chemistry and Qualitative Analysis</td>
<td></td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Biological Science Electives**

<table>
<thead>
<tr>
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<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
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<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 356</td>
<td>Developmental Biology</td>
<td>3</td>
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<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 405</td>
<td>General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 490</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 507</td>
<td>Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 529</td>
<td>Molecular Biology of Microorganisms</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 564</td>
<td>Endocrinology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 572</td>
<td>Functional Genomics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 573</td>
<td>Cellular Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 580</td>
<td>Experimental Microbiology</td>
<td>4</td>
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</tbody>
</table>

**Industrial Fermentation and Biotechnology Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
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</tr>
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<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
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<td>Select two of the following:</td>
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</tr>
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<td>CHEM 603</td>
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<tr>
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</tr>
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<td>or CHEM 692</td>
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<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
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<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
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<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
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<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
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<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
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<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
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</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
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</table>

**Select 7 credits (see below)**

**Total Credits** 72-75
Suggested Timetable for the Biochemistry Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 489</td>
<td>Internship in Chemistry, Upper Division (satisfies L&amp;S research requirement)</td>
<td>1-6</td>
</tr>
<tr>
<td>CHEM 543</td>
<td>Bioproduct Regulatory Protocols Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
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<td>PHYSICS 122 &amp; PHYSICS 123</td>
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<td>Introductory Finite Mathematics</td>
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<tr>
<td>MTHSTAT 215</td>
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<td></td>
<td><strong>Total Credits</strong></td>
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</tbody>
</table>

Suggested Timetable for the Biochemistry Major

<table>
<thead>
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<th>Semester 1</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td></td>
<td>MATH 211</td>
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<td>4</td>
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<td></td>
<td></td>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
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<td><strong>Credits</strong></td>
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<td></td>
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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
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<td><strong>Credits</strong></td>
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<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
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<tr>
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<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
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</tr>
<tr>
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<td><strong>Credits</strong></td>
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<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
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<td>Organic Chemistry</td>
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<td></td>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
<td>5</td>
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<td>Genetics</td>
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<td></td>
<td>CHEM 399</td>
<td>Special Chemical Problems:</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>16</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>6</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIO SCI Elective</td>
<td>Biochemistry: Cellular Processes or Biochemistry: Metabolism</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHEM 602</td>
<td>or CHEM 604</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>9</strong></td>
<td></td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde...
Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

**Honors in the College of Letters and Science**

**Dean's Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**
Current Students contact Senior Lecturer Gloria Freschl, freschl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/chemistry/undergraduate/biochemistry/

### Biochemistry, BS

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area’s industrial and scientific community.

### Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from five different curricular options in chemistry and biochemistry:

1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Chemistry Major with a Biochemical Option
4. Standard Biochemistry Major
5. Biochemistry Major with an Industrial Fermentation and Biotechnology Option
6. Biochemistry Major with a Clinical Pharmacology Option (BS only)

For any option, at least 15 credits must be taken in chemistry courses numbered 300 or above at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all credits attempted, including any transfer work. Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Biochemistry is a specialty within chemistry that focuses on the basic substances and elements that make up living creatures, including plants, animals and humans.

Biochemistry is a popular major for students preparing to go on to medical school, veterinary school, dental school or other similar healthcare professional programs that require a foundation in both biology and chemistry. However, students also pursue many other types of paths including lab research in areas related to water, healthcare, and manufacturing; forensics work for municipalities or agencies; agriculture; genetics; scientific writing and promotion; sales and marketing in science fields; food safety and production; legal consulting on scientific matters; pharmaceutical production; and more.

Graduate studies in Biochemistry can be found under the Chemistry and Biochemistry (http://uwm.edu/letters-science/programs/?classification=GRAD) department, with both a Master of Science and the terminal PhD available.
Requirements
Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
</tbody>
</table>

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement.

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.
III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways: ¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
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<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation. **</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

² Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement.
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Prerequisite Preparation for Majors in Chemistry and Biochemistry
General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one's start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

Declaration of Major Requirements
To declare a chemistry or biochemistry major, the following are required:
- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

Biochemistry Major Requirements
The biochemistry major differs from the standard chemistry major with a biochemical option in a number of ways intended to provide for students a more intensive education in biochemistry so that they are prepared for work in the biochemical industry upon completing their baccalaureate degree. Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

There are three options in the biochemistry major:
- Biochemistry General Option
- Biochemistry with Clinical Pharmacology Option
- Biochemistry with Industrial Fermentation and Biotechnology Option
  (which is offered jointly with the Department of Biological Sciences)

### Requirements

#### Biochemistry General Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select two of the following:</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Biological Science Electives

Select 7 credits (see below)                                   7

Total Credits                                            69-72

#### Biological Science Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 356</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 405</td>
<td>General Virology</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Clinical Pharmacology Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select two of the following:</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 596</td>
<td>Neuropharmacology</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits                                            82-85

### Biological Science Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 427</td>
<td>Clinical Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 428</td>
<td>Clinical Immunology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BMS 431</td>
<td>Clinical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>BMS 432</td>
<td>Clinical Chemistry Laboratory Theory &amp; Operations</td>
<td></td>
</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
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</table>

Total Credits                                            82-85
Industrial Fermentation and Biotechnology Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>10</td>
</tr>
<tr>
<td>&amp; CHEM 104</td>
<td>and General Chemistry and Qualitative Analysis</td>
<td></td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td></td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 536</td>
<td>Applied Microbiology and Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 541</td>
<td>Bioprocess Chemical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 537</td>
<td>Industrial Microbiology and Biotechnology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM/BIO SCI 543</td>
<td>Bioprocess Chemical Engineering Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 489</td>
<td>Internship in Chemistry, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td></td>
<td>(with &quot;Science Career Transitions&quot; focus)</td>
<td></td>
</tr>
<tr>
<td>CHEM 489</td>
<td>Internship in Chemistry, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td></td>
<td>(satisfies L&amp;S research requirement)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>&amp; PHYSICS 121</td>
<td>and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
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<td></td>
<td>Total Credits</td>
<td>64-77</td>
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</table>

Suggested Timetable for the Biochemistry Major

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Year 1</td>
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</tr>
<tr>
<td>Semester 1</td>
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<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Credits</td>
<td>13</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<tr>
<td>MATH 213</td>
<td>Calculus with Life Sciences Applications</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Credits</td>
<td>9</td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>&amp; PHYSICS 121</td>
<td>and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credits</td>
<td>15</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 122</td>
<td>General Physics II (Non-Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>&amp; PHYSICS 123</td>
<td>and General Physics Laboratory II (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 399</td>
<td>Special Chemical Problems:</td>
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<td></td>
<td>Credits</td>
<td>16</td>
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<tr>
<td>Year 3</td>
<td></td>
<td></td>
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<tr>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Credits</td>
<td>6</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO SCI Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Credits</td>
<td>9</td>
</tr>
<tr>
<td>Year 4</td>
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<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>2</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Credits</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>73</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.
When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

Honors in the College of Letters and Science

Dean's Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Senior Lecturer Gloria Freschl, freschl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/chemistry/undergraduate/biochemistry/

Chemistry, BA

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from five different curricular options in chemistry and biochemistry.

1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Chemistry Major with a Biochemical Option
4. Standard Biochemistry Major
5. Biochemistry Major with an Industrial Fermentation and Biotechnology Option
6. Biochemistry Major with a Clinical Pharmacology Option (BS only)

For any option, at least 15 credits must be taken in chemistry courses numbered 300 or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all credits attempted, including any transfer work. Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students
work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Because it is the foundation of other sciences, UWM Chemistry alumni are prepared to go on to countless number of professional roles. While your first impression may be that chemistry majors all end up working in a laboratory surrounded by beakers and test tubes, there is more to the major than that.

Our majors go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Arts</strong></td>
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<tr>
<td>Select 3 credits</td>
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<tr>
<td><strong>Humanities</strong></td>
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<tr>
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</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
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<td></td>
</tr>
<tr>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AFRICOL 220  Introduction to Statistics in Africology
ANTHRO 568  Introduction to Anthropological Statistics
ATM SCI 500  Statistical Methods in Atmospheric Sciences
BIO SCI 465  Biostatistics
ECON 210  Economic Statistics
GEOG 247  Quantitative Analysis in Geography
HIST 595  The Quantitative Analysis of Historical Data
MTHSTAT 215  Elementary Statistical Analysis
PHILOS 211  Elementary Logic
POL SCI 390  Political Data Analysis
POL SCI 392  Survey Research
PSYCH 210  Psychological Statistics
SOCIOL 261  Introduction to Statistical Thinking in Sociology

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 100</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Principles of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 100</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Principles of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>Physical Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+), students must complete the Breadth Requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 3 credits in a course with Cultural Diversity (CD) designation. **</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

VI. The Major
The College of Letters and Science requires that students attain a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Prerequisite Preparation for Majors in Chemistry and Biochemistry
General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.
Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one’s start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

**Declaration of Major Requirements**

To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

**Chemistry Major Requirements**

**Standard Chemistry Major Option**

The standard chemistry major option may be followed in either the Bachelor of Science or Bachelor of Arts degree. It provides a suitable background for students preparing for employment in chemistry and related scientific fields or for subsequent graduate study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Advanced Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>or CHEM 584</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced Chemistry Laboratory II</td>
<td></td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or CHEM 511</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inorganic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td></td>
<td>or CHEM 692</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>Recommended course:</td>
<td>Linear Algebra and Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 234 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td>10</td>
</tr>
</tbody>
</table>

**Option 1:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 210 &amp; PHYSICS 215</td>
<td>Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)</td>
<td></td>
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**Option 2:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Physics II: Calculus-Based, Studio Format</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**: 63-67

**Standard Chemistry Major with a Biochemical Option**

The standard chemistry major with a biochemical option differs from the standard major option in that some of the chemistry courses required by the standard option are omitted, and courses in biochemistry and biological sciences are added. Some students planning further study in biochemistry, molecular biology, or medicine may prefer this option.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102   &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 581</td>
<td>Advanced Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>or CHEM 584</td>
<td>Advanced Chemistry Laboratory II</td>
<td></td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 511</td>
<td>Inorganic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
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<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>Recommended course:</td>
<td>Linear Algebra and Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td></td>
</tr>
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</table>

Select one of the following options: 10

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td>10</td>
</tr>
</tbody>
</table>
**Model Four-Year Program**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>11</strong></td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 214</td>
<td>Lab Physics I (Calculus Treatment)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>14</strong></td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry (or take in spring)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 215</td>
<td>Lab Physics II (Calculus Treatment)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>11</strong></td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Advanced Chemistry Laboratory I (or take in spring)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Credits</strong></td>
<td><strong>10-11</strong></td>
</tr>
</tbody>
</table>

**Suggested Timetables for Standard Chemistry Major, Courses in Chemistry Degree, and Standard Chemistry Major with a Biochemical Option**

**Semester 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 511</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 584</td>
<td>Advanced Chemistry Laboratory II (or take in fall)</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Advanced Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 691</td>
<td>Senior Research</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>CHEM 697</td>
<td>Senior Seminar</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 81-83

1. Courses that may be optional for standard chemistry major; required for the Course in Chemistry degree.
2. Courses that are omitted for the standard chemistry major with the biochemical option. In addition, students must take CHEM 501, CHEM 603, and two courses selected from CHEM 601, CHEM 602, CHEM 604, and CHEM 614. BIO SCI 150 and BIO SCI 325 also are required for the biochemistry option.

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uw.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uw.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the Major**

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:
The Department of Chemistry and Biochemistry curriculum provides Chemistry, BS
https://uwm.edu/chemistry/undergraduate/
(414) 229-7711 or let-sci@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor.
Current Students contact Senior Lecturer Gloria Freschl,
Contact Information above.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Senior Lecturer Gloria Freschl,
freschl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/chemistry/undergraduate/

Chemistry, BS
The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as
research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

Course of Study: Major Options in Chemistry and Biochemistry
Students may choose from five different curricular options in chemistry and biochemistry.
1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Chemistry Major with a Biochemical Option
4. Standard Biochemistry Major
5. Biochemistry Major with an Industrial Fermentation and Biotechnology Option
6. Biochemistry Major with a Clinical Pharmacology Option (BS only)

For any option, at least 15 credits must be taken in chemistry courses numbered 300 or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all credits attempted, including any transfer work. Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.
Chemistry is known as the "central science" because of its relationship to all other sciences. Because it is the foundation of other sciences, UWM Chemistry alumni are prepared to go on to countless number of professional roles. While your first impression may be that chemistry majors all end up working in a laboratory surrounded by beakers and test tubes, there is more to the major than that.

Our majors go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing
and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

**Requirements**

**Course of Study – Bachelor of Science Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td>1</td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>At least two courses including one lab</td>
<td></td>
</tr>
<tr>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

**College of Letters & Science Requirements**

**I. English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To
complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required. Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways: ¹</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

² Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement.
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Prerequisite Preparation for Majors in Chemistry and Biochemistry
General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one's start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

Declaration of Major Requirements
To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

Chemistry Major Requirements
Standard Chemistry Major Option
The standard chemistry major option may be followed in either the Bachelor of Science or Bachelor of Arts degree. It provides a suitable
background for students preparing for employment in chemistry and related scientific fields or for subsequent graduate study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Advanced Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 584</td>
<td>Advanced Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Advanced Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 584</td>
<td>Advanced Chemistry Laboratory II</td>
<td>2</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 605</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following options: 10

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 210 &amp; PHYSICS 215</td>
<td>Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)</td>
<td>4</td>
</tr>
</tbody>
</table>

Option 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Physics II: Calculus-Based, Studio Format</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 63-67

Standard Chemistry Major with a Biochemical Option

The standard chemistry major with a biochemical option differs from the standard major option in that some of the chemistry courses required by the standard option are omitted, and courses in biochemistry and biological sciences are added. Some students planning further study in biochemistry, molecular biology, or medicine may prefer this option.

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
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</tr>
<tr>
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<td>Physical Chemistry Laboratory</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
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</tr>
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</table>

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<tr>
<td>CHEM 605</td>
<td>Introduction to Biochemistry Laboratory</td>
<td>2</td>
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<td>CHEM 691</td>
<td>Senior Research (satisfies L&amp;S research requirement)</td>
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</tbody>
</table>

Option 2:

<table>
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<tbody>
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<td>PHYSICS 220</td>
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</tr>
</tbody>
</table>

Total Credits 77-81

Suggested Timetables for Standard Chemistry Major, Courses in Chemistry Degree, and Standard Chemistry Major with a Biochemical Option

Model Four-Year Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Credits 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

Credits 9
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

Honors in the College of Letters and Science

Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Senior Lecturer Gloria Freschl, freschl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/chemistry/undergraduate/

Chemistry, Minor

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Thus, a minor in chemistry nicely complements any other science major.

Our alumni go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Requirements

The minor in Chemistry consists of a minimum of 20 credits in chemistry, with at least 9 of these at or above the 300 level in residence at UWM.

Students must maintain an average GPA of 2.500 in all minor courses attempted at UWM. In addition, students must attain a 2.500 GPA on all minor courses attempted, including any transfer work. CHEM 106 does not count toward the minor and is not included in the minor GPA. For further information regarding degree requirements, see the Chemistry Academic Undergraduate Advisor, Gloria Freschl. Please bring a copy of your transcript when meeting with the advisor to declare a major. Unofficial, free-of-charge UWM transcripts may be obtained from the Department of Enrollment Services in Mellencamp Hall, Room 274.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Select one course from three of the following areas:</td>
<td>5-10</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td></td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td></td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
<td></td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td></td>
</tr>
<tr>
<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td></td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 511</td>
<td>Inorganic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 614</td>
<td>Bio-Inorganic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Introductory Organic Chemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>15-20</td>
</tr>
</tbody>
</table>

1 Students without high school chemistry or whose background in science is weak may need to take CHEM 100 prior to enrolling in CHEM 102.

Contact Information

Current Students contact Senior Lecturer Gloria Freschl, freschl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/chemistry/undergraduate/

Chemistry, MS

The Department of Chemistry and Biochemistry offers a graduate program of studies with a choice of areas of specialization in analytical, organic, inorganic and physical chemistry or in biochemistry. The student is expected to develop breadth of study beyond the boundaries of traditional areas and disciplines. The student is afforded the opportunity of interdisciplinary study in the Surface Studies Laboratory and in the Center for Great Lakes Studies.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus this departmental requirement to be considered for admission to the program.

1. Undergraduate preparation in chemistry and related areas equivalent to a chemistry major which includes at least one year each of physical and organic chemistry with laboratories, and one course each in analytical and inorganic chemistry with physical chemistry prerequisite.

2. Submission of scores from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre). The Chemistry Subject Test is strongly recommended.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. See Special Non-Thesis Option below for additional requirements for admission to that option.

Standard Thesis Option

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering student is assigned a temporary advisor; a permanent advisor must be selected by the end of the first semester of study. The major professor serves as the student’s research mentor.

* This requirement may be modified for part-time students who may be employed during normal hours of the seminar and colloquium.

Graduate School regulations require that a majority of all courses taken be at the 700-999 level.

Prior to initial registration, the student takes advisory examinations to assess that individual’s preparation in analytical, organic, inorganic, physical, and biochemistry.

In consultation with the major professor, the student plans a program based on the results of these examinations. The student also must participate in at least one term of part-time teaching as a teaching assistant.

Thesis
The student writes a thesis, essentially a formal report of that student’s research. Since the MS is largely a research degree, the quality of research reported in the thesis is an important measure of the student’s success in the program.

Comprehensive Examination
The student must pass a final oral examination in defense of the thesis. At the discretion of the examining committee, this examination may include topics in addition to the thesis.

Special Non-Thesis Option For Students With Professional Experience In Chemistry

Additional Admission Requirements
In addition to the general requirements noted above for the master’s degree program, applicants must have a minimum of five years of professional chemistry experience beyond the BA or BS degree, including a sizable amount of research or development laboratory work. Since the Department of Chemistry and Biochemistry believes that the problem-solving experience of research is an indispensable part of graduate study, applicants will be interviewed by a faculty committee to assess the prior research experience as appropriate background for the program.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. For this option, the major professor is chosen (by the Graduate Subcommittee) before admission to the program, and serves as a member of the committee which assesses the prior research experience of the student. The major professor should be from the area of chemistry in which the student intends to concentrate the major portion of course efforts.

Credits and Courses
Minimum degree requirement is 30 graduate credits. Normally these include at least five 600-899 level courses, chosen by the student in consultation with the advisor. A minimum grade point average of 3.00 must be earned in formal coursework, not including research courses (CHEM 990-CHEM 996) or seminars (CHEM 912, CHEM 931-CHEM 935). Students must complete a minimum of 6 credits in research. The remaining credits are taken in research and seminars.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td><strong>Minimum Requirements</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>At least five 600- to 899-level courses</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>CHEM 912 Graduate Seminar (audit each semester and graded once)</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>30</td>
</tr>
</tbody>
</table>
Papers and Comprehensive Examinations
The student prepares two survey papers exploring subjects in more depth than the coverage in coursework. Of these, one is in a major area and one is in a minor area. These must be approved by the student’s examining committee, which consists of three faculty members representing the areas of the papers. One paper must be approved at least six months before the comprehensive examination. An oral comprehensive examination covers both the areas of the papers and other areas at the discretion of the committee.

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

Chemistry, PhD
The Department of Chemistry and Biochemistry offers a graduate program of studies with a choice of areas of specialization in analytical, organic, inorganic and physical chemistry or in biochemistry. The student is expected to develop breadth of study beyond the boundaries of traditional areas and disciplines. The student is afforded the opportunity of interdisciplinary study in the Surface Studies Laboratory and in the Center for Great Lakes Studies.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus departmental requirements as given for admission to the master’s program. A master’s degree is not a prerequisite for admission to the PhD program in chemistry.

Reapplication
A student who receives the master’s degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD Major.

Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering student is assigned a temporary advisor; a permanent advisor must be selected by the end of the first semester of study. The major professor serves as the student’s research mentor.

Credits and Courses
Minimum degree requirement is 54 graduate credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM. The student plans an individual program of studies in consultation with the major professor.

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Minimum Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>At least six 600- to 899-level courses</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Research courses</td>
<td>28</td>
<td></td>
</tr>
</tbody>
</table>

Coursework must include one of the following:
- a minor of 9 to 12 credits in a single department;
- a minor of 9 to 12 credits in two or more departments;
- a coherent program of at least 9 credits concentrated in an area of chemistry outside the student’s principal area of emphasis.

A Program of Studies, including coursework and proposed research, must be approved by the Department. A minimum grade point average of 3.00 must be earned in coursework in Chemistry, not including research (CHEM 900-CHEM 996) or seminars (CHEM 912-CHEM 935). Graduate School regulations require that a majority of all courses taken be at the 700-999 level.

The Department has no formal language requirement but the student is responsible for familiarity with published literature in the area of that student’s research.

The student must also participate in at least one semester of part-time teaching as a teaching assistant. The first stage of the student’s program includes general preparation as in the master’s program, as well as specialized courses in principal areas of interest and the initiation of research.

Admission to the second stage of the PhD program is based upon satisfactory performance in courses, research, and in departmental examinations. Upon entrance, the student takes proficiency examinations in analytical, inorganic, organic, and physical chemistry. Departmental approval to continue in the doctoral program is attained by passing an advanced qualifying examination in the major area. This examination must be completed by the end of the fourth semester of study. In the second stage of the program, the student concentrates on the development and execution of original research. Additional coursework may also be required to complete the program of studies.

Residence
The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/residence/requirements/).

Doctoral Preliminary Examination
The student must take a doctoral preliminary examination. This serves to qualify the student for formal admission by the Graduate School to candidacy for the degree.

Dissertation
Candidates must each present a dissertation reporting the results of independent, original research carried out under the direction of their major professor. At least three months before the Dissertation Defense, at a time when most of the experimental work has been completed, the student meets with the Examining Committee for a preliminary review of the research to be described in the dissertation.

Dissertation Defense
The candidate must, as the final step toward the degree, defend the dissertation in an oral examination. The candidate also presents a public dissertation seminar, describing research in completed form for the
Department and others who may be interested. A student who does not pass this examination within five years of admission to candidacy may be required to take another preliminary examination and be readmitted to candidacy.

**Time Limit**
All degree requirements must be completed within 10 years from the date of initial enrollment in the doctoral program. For additional information view the Graduate School PhD requirements (http://uwm.edu/graduateschool/doctoral-requirements).

**Course in Chemistry, BS**

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

**Course of Study: Major Options in Chemistry and Biochemistry**

Students may choose from five different curricular options in chemistry and biochemistry:

1. **Standard Chemistry Major**
2. **Course in Chemistry Degree Program**
3. **Chemistry Major with a Biochemical Option**
4. **Standard Biochemistry Major**
5. **Biochemistry Major with an Industrial Fermentation and Biotechnology Option**
6. **Biochemistry Major with a Clinical Pharmacology Option (BS only)**

For any option, at least 15 credits must be taken in chemistry courses numbered 300 or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all credits attempted, including any transfer work. Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

The Course in Chemistry is a professional degree program that follows a curriculum approved by the American Chemical Society. It differs from the chemistry major in requiring more courses in chemistry and fewer in the social sciences and humanities. While any of the chemistry curriculum options (except the biochemistry major), with an appropriate choice of electives, provides a suitable basis for graduate study or employment in chemistry or a related field, the Course in Chemistry is a more complete program and carries additional professional recognition.

**Requirements**

**Course of Study – Bachelor of Science Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td><strong>ENGLISH 102</strong></td>
<td>College Writing and Research (or equivalent)</td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Arts</strong></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
</tbody>
</table>
Natural Sciences
Select 6 credits (At least two courses including one lab)  6

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
</tbody>
</table>

PSYCH 210 | Psychological Statistics
SOCIOL 261 | Introduction to Statistical Thinking in Sociology

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than those taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas.</td>
<td></td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td></td>
</tr>
</tbody>
</table>
* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Research Requirement.
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Prerequisite Preparation for Majors in Chemistry and Biochemistry
General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one’s start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

Declaration of Major Requirements
To declare a chemistry or biochemistry major, the following are required:

* completion of CHEM 102 and CHEM 104;
* completion or concurrent registration in CHEM 343; and
* a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

**Course in Chemistry Major Requirements**
The Course in Chemistry program also has specific requirements outside of the sciences. To graduate, students are required to have an overall GPA of 2.000 and a 2.500 GPA in chemistry courses other than Chem 106. A total of at least 18 credits in the humanities, social sciences, and arts is required. This course array supersedes the College of Letters and Science breadth requirements; courses must be selected to include the campus-wide GER distribution requirements (6 cr each in humanities and social sciences, 3 cr in arts, and 3 cr in cultural diversity). Students also must complete two courses (at least 6 credits) in a single language (including American Sign Language) other than English at the 100 level or above with grades of C or higher. This requirement is satisfied by two years of a single language (including American Sign Language) other than English taken in high school. English 102 with a grade of C or better or a score of 4 on the English placement exam also is required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Advanced Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 584</td>
<td>Advanced Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 511</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research</td>
<td>1-4</td>
</tr>
<tr>
<td>or CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following options:

**Option 1:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
</tr>
<tr>
<td>PHYSICS 210 &amp; PHYSICS 215</td>
<td>Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)</td>
</tr>
</tbody>
</table>

**Option 2:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Physics II: Calculus-Based, Studio Format</td>
</tr>
</tbody>
</table>

Total Credits 72-76
Suggested Timetables for Standard Chemistry Major, Courses in Chemistry Degree, and Standard Chemistry Major with a Biochemical Option

Model Four-Year Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Precalculus</td>
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<tr>
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</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
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<td>9</td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
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<td></td>
<td>Total</td>
<td>11</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
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</tr>
<tr>
<td>PHYSICS 214</td>
<td>Lab Physics I (Calculus Treatment)</td>
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<tr>
<td>Year 3</td>
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<tr>
<td>Semester 1</td>
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<tr>
<td>CHEM 311</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry (or take in spring)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 215</td>
<td>Lab Physics II (Calculus Treatment)</td>
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</tr>
<tr>
<td></td>
<td>Total</td>
<td>11</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 561</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>3</td>
</tr>
<tr>
<td>Year 4</td>
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<td></td>
</tr>
<tr>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 562</td>
<td>Physical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 563</td>
<td>Physical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Advanced Chemistry Laboratory I (or take in spring)</td>
<td>2</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research</td>
<td></td>
</tr>
<tr>
<td>CHEM 692</td>
<td>Senior Thesis</td>
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<tr>
<td>CHEM 697</td>
<td>Senior Seminar</td>
<td></td>
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</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 511</td>
<td>Inorganic Chemistry ¹</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 584</td>
<td>Advanced Chemistry Laboratory II (or take in fall)</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Advanced Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>1-2</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research</td>
<td></td>
</tr>
<tr>
<td>CHEM 692</td>
<td>Senior Thesis</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 697</td>
<td>Senior Seminar</td>
<td>14-15</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>81-83</td>
</tr>
</tbody>
</table>

¹ Courses that may be optional for standard chemistry major; required for the Course in Chemistry degree.
² Courses that are omitted for the standard chemistry major with the biochemical option. In addition, students must take CHEM 501, CHEM 603, and two courses selected from CHEM 601, CHEM 602, CHEM 604, and CHEM 614. BIO SCI 150 and BIO SCI 325 also are required for the biochemistry option.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uw.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic counselors. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300);
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.
A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Senior Lecturer Gloria Freschl, freschl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/chemistry/undergraduate/

Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610 or HCA 212</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 24

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
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</table>
Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CRM/JST 594</td>
<td>Internship in Forensic Science</td>
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</tr>
<tr>
<td>ANTHRO 404</td>
<td>Seminar in Human Evolutionary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
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<td>CHEM 194</td>
<td>First-Year Seminar:</td>
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<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
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</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
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</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
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</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code/Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CRM/JST 281</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM/JST 481</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>3</td>
</tr>
<tr>
<td>or ANTHRO 404</td>
<td>3</td>
</tr>
<tr>
<td>or HCA 212</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 285</td>
<td>3</td>
</tr>
<tr>
<td>or CRM JST 481</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM/JST 585</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>1</td>
</tr>
<tr>
<td>&amp; BMS 561</td>
<td>3-4</td>
</tr>
<tr>
<td>and Molecular Diagnostics Laboratory</td>
<td>21-22</td>
</tr>
</tbody>
</table>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CRM/JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM/JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM/JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CRM/JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
</tbody>
</table>

Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria
required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 281</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 481</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>or ANTHRO 404</td>
<td>Seminar in Human Evolutionary Physiology</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 285</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>CRM JST 585</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>CRM JST 589</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>CRM JST 594</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>
CHILDHOOD AND ADOLESCENCE STUDIES, UNDERGRADUATE CERTIFICATE

The Undergraduate Certificate in Childhood and Adolescence Studies (CAS) covers topics related to children and their social worlds. Through its classes, students examine how race, class, gender, sexuality, and disability impact development and cognition. CAS is an interdisciplinary program built around a core of liberal arts courses, with primary course offerings in sociology and psychology, and other complementary courses drawn in from health sciences, social work, education, and criminal justice.

Students complete the certificate with a better understanding of children and adolescence and how they are affected by society, culture, religion, politics, economics, health, and education policy. The certificate complements a number of different majors including education, psychology, sociology, social work and political science, and can make graduates more marketable for jobs that involve working with children.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Childhood and Adolescence Studies Undergraduate Certificate is intended to enhance a bachelor's degree. The Program is open to all students seeking a bachelor’s degree from UWM and to students who previously have received a bachelor’s degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.

Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved childhood and adolescence studies courses as indicated below. Courses for the certificate may not be taken on a credit/no credit basis.

Twelve of the 18 required credits must be earned in residence at UWM. Of these twelve residence credits, nine must be taken at the 300 level or above. Of the 18 required credits, 12 must be in the College of Letters and Science, with at least six of these at the 300 level or above. Three credits must be elected from outside the College of Letters and Science. No more than nine credits from any one department may count toward the Childhood and Adolescence Studies Certificate.

A maximum of six credits in Independent Study may count toward program requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 446</td>
<td>The Child in Different Cultures</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select at least 6 credits from approved Letters and Science courses below
Select at least 3 credits from approved Non-L&S courses below
Select 3 additional credits from the list of approved courses below

Total Credits 18

1 Students may petition the CAS Advisory Committee for approval of appropriate courses not on the approved list.

Approved Courses

Independent study courses focusing on children and adolescents may be accepted with the approval of the CAS Advisory Committee. If a core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the CAS Advisory Committee to accept another course in its stead. Other courses not on this list but relevant to the study of children and adolescents may be accepted with the approval of the CAS Advisory Committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the CAS Advisory Committee.

Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Letters and Science</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AFRICOL 451</td>
<td>Rites of Passage in Black Societies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AFRICOL 545</td>
<td>Raising Children,‘Race-ing’ Children</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century: (Youth Culture in the Middle East Through Literature, Art, and Film)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies: (Troubled Teens)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (Teens on TV)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FRENCH 426</td>
<td>Growing Up French</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind: (Growing Up)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (Global Youth Language and Culture)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYCH 205</td>
<td>Personality</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYCH 660</td>
<td>Experimental Child Psychology</td>
<td>4</td>
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<tr>
<td>SOCIOL 246</td>
<td>Juvenile Delinquency</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 248</td>
<td>Sociology of Education</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 448</td>
<td>Sociology of Children and Adolescents</td>
<td>3</td>
<td></td>
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</tbody>
</table>

Non-L&S Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 240</td>
<td>Normal Speech and Language Development</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 671</td>
<td>Juvenile Justice</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children’s and Young Adult Literature</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 650</td>
<td>Reading Interests of Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 651</td>
<td>Literature for the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 534</td>
<td>The Student at Risk (Causes)</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>ED POL/EXCEDUC/SOC WRK 580</td>
<td>An Overview of Child/Youth Care</td>
<td>3</td>
</tr>
<tr>
<td>ED POL/SOC WRK 581</td>
<td>Youth Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC/ED POL/SOC WRK 580</td>
<td>An Overview of Child/Youth Care</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 600</td>
<td>Survey of Exceptional Education</td>
<td>3</td>
</tr>
<tr>
<td>HCA 203</td>
<td>Human Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 645</td>
<td>Library Materials for Children</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 646</td>
<td>Library Materials for Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 691</td>
<td>Special Topics in Information Science: (African American History in Children's Literature; GLBTQ Literature for Young Adults; or Multicultural Children's Literature)</td>
<td>1-3</td>
</tr>
<tr>
<td>NURS 203</td>
<td>Human Growth and Development Across the Life Span</td>
<td>4</td>
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<tr>
<td>NUTR 245</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PH 206</td>
<td>Child and Adolescent Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 306</td>
<td>Adolescent Health &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 250</td>
<td>Human Behavior and the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 562</td>
<td>Child and Family Services</td>
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<tr>
<td>SOC WRK 580/ ED POL 581</td>
<td>An Overview of Child/Youth Care</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 581</td>
<td>Youth Work Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

**Contact Information**

Current Students contact Professor Hobart Davies, hobart@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Childhood%26Adolescence+Studies
COMMUNICATION

The study of communication examines how language is used to generate meanings within and across various contexts, cultures, and media. The mission of the Department of Communication is to provide students with education in the theory, history, ethics and practice of communication and to prepare them for careers and leadership in a wide variety of professions.

Programs

- Communication, BA (p. 1142)
- Communication, MA (p. 1146)
- Communication, MA: Rhetorical Leadership (p. 1147)
- Communication, Minor (p. 1149)
- Communication, PhD (p. 1150)
- Communication, PhD: Rhetorical Leadership (p. 1151)
- Mediation and Negotiation, Graduate Certificate (p. 1153)
- Rhetorical Leadership, Graduate Certificate (p. 1154)

Communication Courses

COMMUN 101 Introduction to Interpersonal Communication
3 cr. Undergraduate.
Basic concepts for understanding communication in interpersonal relationships. Combines a theoretical approach with a skills approach to the study of interpersonal communication.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

COMMUN 103 Public Speaking
3 cr. Undergraduate.
Principles of public address in informative, persuasive and special occasion situations with emphasis on the theory, composition, and presentation of speeches.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

COMMUN 105 Business and Professional Communication
3 cr. Undergraduate.
Analysis and application of communication principles and practices (interpersonal communication, teamwork issues, public speaking, technological communication) fundamental to successful participation in organizational and professional activities.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

COMMUN 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Offered as cr/no cr only. May be retaken to 6 cr max, w/3 cr max from any one faculty member.

COMMUN 199 Independent Study
1-3 cr. Undergraduate.
Independent study under the supervision of an appropriate faculty or staff member. For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2014, Fall 2013, Spring 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

COMMUN 200 Introduction to Communication Research
3 cr. Undergraduate.
The purposes and basic processes of communication.
Prerequisites: none.
Last Taught: Spring 2012, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

COMMUN 260 Elements of Human Communication Theory
3 cr. Undergraduate.
Theory and research in fundamental concepts, antecedents, consequences, and effects of human communication; emphasis on range of approaches to the study of human communication.
Prerequisites: soph st; Commun 101(P).
Current Offerings: http://uwm.edu/schedule

COMMUN 264 Persuasive Speaking
3 cr. Undergraduate.
Designed specifically to increase students' understanding of and proficiency in various techniques and modes of persuasive speaking.
Prerequisites: Commun 103(P).
Current Offerings: http://uwm.edu/schedule

COMMUN 285 Communicating with Older Adults
3 cr. Undergraduate.
Application of communication research and theory to the understanding of communication with, about, and among older adults.
Prerequisites: none.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

COMMUN 288 Research Practicum
1-3 cr. Undergraduate.
Research experience under the supervision of a member of the Commun faculty.
Prerequisites: Commun 200(P); 3.00 overall gpa; satisfaction of GER English Composition competency req; writ cons instr.
Course Rules: Offered as cr/no cr only. May be retaken to 6 cr max, w/3 cr max from any one faculty member.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2010.
Current Offerings: http://uwm.edu/schedule
COMMUN 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Last Taught: Spring 2013, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

COMMUN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule

COMMUN 298 Internship in Communication
1-3 cr. Undergraduate.
Field experience in profit/nonprofit organization; course examines professional communication issues.
Prerequisites: 2.0 gpa overall; writ cons internship dir.
Course Rules: May be retaken to 6 cr max. Offered as cr/no cr only.
Current Offerings: http://uwm.edu/schedule

COMMUN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

COMMUN 300 Interviewers and Interviewing
3 cr. Undergraduate.
Focuses on information-getting interviews. Discussion, practice, and analysis of interviewer effects, setting, question form, sequence, and wording.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMMUN 301 Interpersonal Communication Processes
3 cr. Undergraduate.
Focused analysis of the processes involved in face to face communication, includes the examination of the communication variables which define, sustain, or change interpersonal relationships.
Prerequisites: jr st; Commun 101(P); satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

COMMUN 302 Communication in Organizations
3 cr. Undergraduate.
Factors affecting structure and function of communication in organizations. Emphasis on concepts and principles enhancing effective management of communication processes.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: http://uwm.edu/schedule

COMMUN 303 Human Communication and Technology
3 cr. Undergraduate.
Examination of the actual and potential role of technology in facilitating satisfying communication relationships.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: http://uwm.edu/schedule

COMMUN 304 Communication in Groups and Teams
3 cr. Undergraduate.
Analysis of communication processes in groups and teams; includes examination of theories and research findings; addresses group and team participation and decision-making skills.
Prerequisites: jr st; Commun 105(P); satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: http://uwm.edu/schedule

COMMUN 305 Instructional Communication for Human Resource Trainers
3 cr. Undergraduate.
Theory and practice of instructional communication methods used to train employees of profit and nonprofit organizations.
Prerequisites: jr st; Commun 103(P) or 105(P); satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMMUN 306 Critical Analysis of Communication
3 cr. Undergraduate.
Nature, development, and applications of criticism, with major emphasis on contemporary communication situations.
Prerequisites: jr st; satisfaction of Oral and Written Communication Part A GER.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule
COMMUN 350 Intercultural Communication
3 cr. Undergraduate.
Overview of U.S. intercultural communication, including communication issues for interracial and interethnic communication.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD, SS
Current Offerings: http://uwm.edu/schedule

COMMUN 362 Argumentation and Debate
3 cr. Undergraduate.
The theory and practice of argumentation with emphasis on critical thinking, argument analysis, and preparation of policy and evaluative arguments.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: HU
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

COMMUN 363 Communication in Human Conflict
3 cr. Undergraduate.
Investigation of the relationship between communication and the processes of human conflicts. Focus upon the nature and origin of human conflict and communicative strategies which may be used to manage conflict situations.
Prerequisites: jr st; Comm 101(P); satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMMUN 365 Negotiation Skills Workshop
3 cr. Undergraduate.
Simulation-based, interactive workshop on improving student's understanding of the negotiation process; building communicative effectiveness as a negotiator in various business and personal contexts.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

COMMUN 370 Quantitative Research in Communication
3 cr. Undergraduate.
Concepts, strategies and methods in the quantitative assessment of problems in the study of human communication as a behavioral science.
Prerequisites: jr st; satisfaction of Quantitative Literacy, Part A GER.
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMMUN 372 Qualitative Research in Communication
3 cr. Undergraduate.
Concepts, strategies, and methods in the qualitative, social-scientific study of human communication. Emphasis on interviews, focus groups, and participant observation.
Prerequisites: jr st; satisfaction of Oral & Written Communication Part A GER.
General Education Requirements: OWCB
Last Taught: Summer 2017, Summer 2015.
Current Offerings: http://uwm.edu/schedule

COMMUN 380 Honors Seminar:
3 cr. Undergraduate.
Topics related to current social problems and communication.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2000, Fall 1997.
Current Offerings: http://uwm.edu/schedule

COMMUN 381 Health Communication
3 cr. Undergraduate.
Theory and process of health communication at multiple levels: individual, social network, organizational, community, and societal. Current research in health communication.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMMUN 401 Communication in Marital and Family Relationships
3 cr. Undergraduate.
Social scientific approach to the study of communication in marital/family relationships. Examination of theory and research concerning communication processes in marital/family relationships.
Prerequisites: jr st; Comm 101(P); satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

COMMUN 402 Gender and Communication
3 cr. Undergraduate.
Course focuses on interactive relationships between gender, communication, and culture; in particular, the ways in which communication creates and perpetuates gendered identities and gendered interaction.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMMUN 410 Organizational Communication Technology
3 cr. Undergraduate.
Conceptual and analytical consideration of communication consequences and needs related to technological assimilation and designing work environments.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMMUN 413 Rhetoric and the Internet
3 cr. Undergraduate.
Critical exploration and analysis of the internet as a communication phenomenon.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule
COMMUN 423 Decision-Making and Creativity
3 cr. Undergraduate.
Key issues in decision making and creativity at various organizational levels and across different decision making domains.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Last Taught: Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

COMMUN 435 Rhetoric in Western Thought
3 cr. Undergraduate.
A survey of rhetorical theory in western thinking since ancient Greece.
Prerequisites: jr st; Commun 103(P); satisfaction of GER English Composition competency req.
Last Taught: Fall 2007, Fall 2004, Fall 2002.
Current Offerings: http://uwm.edu/schedule

COMMUN 436 Recent Rhetorical Theory
3 cr. Undergraduate.
Recent American and European theories of rhetoric as a dimension of human communication.
Prerequisites: jr st; Commun 103(P); satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

COMMUN 440 Contemporary Problems in Freedom of Speech
3 cr. Undergraduate.
Current legal and regulatory issues that involve freedom of speech.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

COMMUN 450 Cross-Cultural Communication
3 cr. Undergraduate.
Theories, research methods, and communication issues in cross-cultural, international interactions.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

COMMUN 462 Communication in the Legal Process
3 cr. Undergraduate.
Theory and research in argumentation and persuasion and application in the legal process.
Prerequisites: jr st; Commun 103(P) or 362(262)(P); satisfaction of GER English Composition competency req.
Last Taught: Fall 2007, Fall 2005, Fall 2004, Fall 2003.
Current Offerings: http://uwm.edu/schedule

COMMUN 464 Theory and Practice of Persuasion
3 cr. Undergraduate.
Consideration of principles and methods of persuasion, with practice in the analysis and preparation of persuasive messages.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2017, Summer 2017, Summer 2016, Fall 2011.
Current Offerings: http://uwm.edu/schedule

COMMUN 472 Rhetoric of Radicalism in the United States
3 cr. Undergraduate.
Rhetoric of radical movements in the United States including the American Revolution, the abolitionist and free love movements, Black Nationalism, women’s liberation, and contemporary radical movements.
Prerequisites: jr st.
Course Rules: Counts as repeat of Commun 651 w/similar topic.
Current Offerings: http://uwm.edu/schedule

COMMUN 474 Rhetoric of Women’s Rights in the US
3 cr. Undergraduate.
Rhetoric of women’s rights and its relationship to equality and participation.
Prerequisites: jr st.
Course Rules: Counts as repeat of Commun 651 w/similar topic.
Last Taught: Spring 2012.
Current Offerings: http://uwm.edu/schedule

COMMUN 481 Interpersonal Issues in Health Communication
3 cr. Undergraduate.
Theory and practice of health communication at the interpersonal level, including such topics as personal relationships, provider-patient interaction, technology, and interpersonal education and prevention.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Last Taught: Spring 2012, Fall 2011, Summer 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

COMMUN 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; satisfaction of GER English Composition competency req; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

COMMUN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one addl sem.
Prerequisites: jr st; satisfaction of GER English Composition competency req; addl prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

COMMUN 550 International and Global Communication
3 cr. Undergraduate/Graduate.
Models, theories, and contexts of relational communication between people from different nation states, viewed from interpersonal, small group, organizational, and rhetorical perspectives.
Prerequisites: jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: http://uwm.edu/schedule
COMMUN 581 Health Communication Interventions
3 cr. Undergraduate.
Theories, strategies, and methods in the design of health promotional and disease prevention interventions. Development of ethical and culturally responsive communication strategies.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Last Taught: Spring 2008.
Current Offerings: http://uwm.edu/schedule

COMMUN 588 Research Practicum
1-3 cr. Undergraduate.
Advanced research experience under the supervision of a member of the Commun faculty.
Prerequisites: jr st; commun major or minor; 3.00 overall gpa; Commun 200(P), 335(P), or 370(P); satisfaction of GER English Composition competency req; writ cons instr.
Course Rules: Offered as cr/no cr only. May be retaken to 6 cr max, w/3 cr max from any one faculty member.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMMUN 597 Practicum in Teaching Communication
1-3 cr. Undergraduate.
Prerequisites: jr st; declared commun major or minor; 3.00 gpa in Commun; satisfaction of GER English Composition competency req; writ cons instr.
Course Rules: May be retaken to 6 cr max, with max of 3 cr from any one faculty member.
Current Offerings: http://uwm.edu/schedule

COMMUN 627 Designing and Developing Communication Courses and Programs
3 cr. Undergraduate/Graduate.
Theory/methods in designing/developing communication courses/programs for academic (college)/organizational (training) environments. Students design/develop instructional materials for online and/or onsite delivery.
Prerequisites: jr st; 9 cr Commun 300-level or above; declared Commun or BAOA major; satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: http://uwm.edu/schedule

COMMUN 631 Current Topics in Interpersonal Communication/Conflict Management
3 cr. Undergraduate.
Research-oriented approaches to interpersonal communication/conflict management. Specific topics announced in Schedule of Classes when course is offered.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMMUN 641 Current Topics in Organizational/Professional Communication:
3 cr. Undergraduate.
Research-oriented approaches to organizational/professional communication. Specific topics announced Schedule of Classes when course is offered.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMMUN 651 Current Topics in Rhetorical/Public Communication:
3 cr. Undergraduate.
Research-oriented approaches to rhetorical/public communication. Specific topics announced in Schedule of Classes when course is offered.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2009, Fall 2007.
Current Offerings: http://uwm.edu/schedule

COMMUN 655 Cultural Training and Adjustment
3 cr. Undergraduate/Graduate.
Theories and research related to the role of communication in cultural adjustment processes, cultural training, and evaluation of training.
Prerequisites: jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: http://uwm.edu/schedule

COMMUN 660 Communication Capstone Seminar:
3 cr. Undergraduate.
Applying theory and principles from across the major to a focused learning experience.
Prerequisites: sr st; 9 crs Commun 300-level or above; declared Commun major; satisfaction of GER English Composition competency req; or cons instr.
Course Rules: May not be retaken for cr, but may be repeated for higher grade.
Current Offerings: http://uwm.edu/schedule

COMMUN 662 Seminar in Communication:
3 cr. Undergraduate.
Taught in seminar format.
Prerequisites: sr st; 9 crs Commun 300-level or above; declared Commun major; satisfaction of GER English Composition competency req; or cons instr.
Course Rules: May not be retaken for cr, but may be repeated for higher grade.
Current Offerings: http://uwm.edu/schedule
COMMUN 665 Introduction to Mediation
3 cr. Undergraduate/Graduate.
Course focuses on learning about the mediation process, related theories, and its application in a variety of contexts. Students receive twenty hours of mediation training.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMMUN 667 Great American Speakers and Issues
3 cr. Undergraduate/Graduate.
Selected great speakers and their speeches on major issues in American history.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

COMMUN 672 Communication and Social Order
3 cr. Undergraduate/Graduate.
The role of communication in both maintaining and challenging social structures and hierarchies.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2013, Fall 2010, Fall 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

COMMUN 675 Communication in International Mediation and Peacebuilding
3 cr. Undergraduate/Graduate.
The various forms of international mediatory activity employed to bring sustainable peace to areas gripped by ethnic and social conflict.
Prerequisites: jr st; satisfaction of GER English Composition competency req; or cons instr.
Current Offerings: http://uwm.edu/schedule

COMMUN 681 Seminar in Communication in a World of AIDS
3 cr. Undergraduate/Graduate.
Communication issues surrounding education and prevention of HIV infection both in the United States and across the world.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2012, Fall 2011, Fall 2010, Spring 2010.
Current Offerings: http://uwm.edu/schedule

COMMUN 697 Organizational Administration Capstone
3 cr. Undergraduate.
Internship, case analysis, or independent study that synthesizes course work in graded paper.
Prerequisites: sr st; declared org adm major; satisfaction of GER English Composition competency req; cons instr.
Course Rules: Commun 697, Econ 697, & Sociol 697 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

COMMUN 698 Internship in Communication
3 cr. Undergraduate.
Field experience in a profit/nonprofit organization; course examines professional communication issues.
Prerequisites: jr st; declared Commun major or approved program of study; 9 cr Commun 300-level or above; 2.5 overall gpa; satisfaction of GER English Composition and Math competency reqs; writ cons internship dir.
Course Rules: May be retaken w/chg in organization to 6 cr max.
Current Offerings: http://uwm.edu/schedule

COMMUN 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Commun faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept dir of undergrad stds.
Prerequisites: jr st; 2.5 gpa; satisfaction of GER English Composition competency req; writ cons inst, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2015, Fall 2014, Summer 2014.
Current Offerings: http://uwm.edu/schedule

COMMUN 700 Quantitative Research in Communication
3 cr. Graduate.
Introduction to the methods and techniques of quantitative research in communication, with special focus on problems of experimental and field research.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 701 Critical Analysis of Communication
3 cr. Graduate.
Introduction to the methods and techniques of humanistic research in communication, with special focus on problems of criticism and history.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 702 Qualitative Research in Communication
3 cr. Graduate.
Methods and techniques of qualitative research in communication; special focus on problems of discourse analysis and interaction observation.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 710 Managerial Communication
3 cr. Graduate.
Designed for organizational communication practitioners; surveys analytic and implementation skills necessary for effective management of communication processes.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule
COMMUN 715 Technology for Health Communication
3 cr. Graduate.
Seminar designed to introduce students to both significant theoretical perspectives and empirical studies related to communication technology for health promotion.
Prerequisites: grad st
Last Taught: Fall 2013, Spring 2011.
Current Offerings: http://uwm.edu/schedule

COMMUN 727 Seminar in Communication and E-Learning
3 cr. Graduate.
Theoretical and applied issues related to teaching communication within an e-learning environment.
Prerequisites: grad st.
Course Rules: For individuals interested in college teaching/corporate training.
Current Offerings: http://uwm.edu/schedule

COMMUN 735 Rhetorical Theory
3 cr. Graduate.
Critical study of various humanistic theories of rhetorical communication. Major emphasis on contemporary theories, trends, and concepts.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2012, Fall 2010, Fall 2007.
Current Offerings: http://uwm.edu/schedule

COMMUN 750 Theory and Research in Intercultural Communication
3 cr. Graduate.
Major theories and contemporary research in the field of intercultural, cross-cultural, and global communication.
Prerequisites: grad st.
Last Taught: Fall 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

COMMUN 762 Argumentation in Theory and Practice
3 cr. Graduate.
Argumentation theories in a performance-based context to train citizen-scholars. Assumes no prior knowledge of argumentation theories.
Prerequisites: grad st.
Last Taught: Fall 2015, Fall 2012, Fall 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

COMMUN 770 Measurement and Evaluation in Speech Communication
3 cr. Graduate.
Consideration of problems and methods of formulating, constructing, and interpreting tests, measurements, and evaluation procedures related to speech communication.
Prerequisites: grad st; Commun 700(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

COMMUN 772 Rhetorical Leadership and Ethics
3 cr. Graduate.
The practice of responsible leadership from the humanities-based perspective of rhetoric.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 800 Proseminar: The Discipline of Communication
3 cr. Graduate.
The theoretical, conceptual, and pedagogical parameters of communication as a discipline.
Prerequisites: grad st; admission to Commun M.A. Program or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMMUN 801 Seminar in Interpersonal Communication
3 cr. Graduate.
Overview of current perspectives and critical analysis of research in verbal and nonverbal aspects of interpersonal communication.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2013, Fall 2010, Spring 2009.
Current Offerings: http://uwm.edu/schedule

COMMUN 802 Marital and Family Communication
3 cr. Graduate.
Examination of how communication functions to develop, maintain, enrich, or limit family relationships.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 803 Gender and Communication
3 cr. Graduate.
Seminar on interactive relationships between gender, communication, and culture; emphasis on the ways in which communication creates and perpetuates gendered identities and gendered interaction.
Prerequisites: grad st.
Last Taught: Fall 2009, Fall 2007, Fall 2005.
Current Offerings: http://uwm.edu/schedule

COMMUN 804 Seminar on Sexuality and Communication
3 cr. Graduate.
Formation of and communication about sexuality and sexual issues; connections among media, technology, and interpersonal forms of communication.
Prerequisites: grad st.
Course Rules: Counts as repeat of Commun 860 w/similar topic.
Last Taught: Spring 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

COMMUN 805 Seminar on Issues in Interpersonal Communication:
3 cr. Graduate.
In-depth study and discussion of application of interpersonal communication research and theory.
Prerequisites: grad st.
Course Rules: Counts as repeat of Commun 860 with same subtitle. Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2014, Spring 2012.
Current Offerings: http://uwm.edu/schedule

COMMUN 806 Understudied Close Relationships
3 cr. Graduate.
How communication functions to develop, maintain, enrich, or limit understudied close relationships.
Prerequisites: grad st.
Course Rules: Counts as a repeat of Commun 805 w/similar topic.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule
COMMUN 807 Dark Side of Close Relationships
3 cr. Graduate.
Challenging, complicated, stressful, and unpleasant communication in close relationships.
Prerequisites: grad st.
Course Rules: Counts as a repeat of Commun 805 w/similar topic.
Last Taught: Spring 2015.
Current Offerings: http://uwm.edu/schedule

COMMUN 810 Studies of Communication in Organizations
3 cr. Graduate.
Surveys theory and research on communication processes that constitute and maintain organizations. Topics include communication and networks, managerial hierarchy, power, and organizational culture.
Prerequisites: grad st.
Last Taught: Spring 2016, Fall 2011, Fall 2009, Fall 2007.
Current Offerings: http://uwm.edu/schedule

COMMUN 812 Communication Policy for Organizations
3 cr. Graduate.
Best practices for translating communication laws and regulations into organizational operations, drawing on both social science and the law.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 813 Seminar in Mediated Communication
3 cr. Graduate.
Advanced course focusing on theory and research pertaining to relationships between human communication processes and interactive technologies.
Prerequisites: grad st.
Last Taught: Spring 2016, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

COMMUN 815 Communication Technologies in Organizations
3 cr. Graduate.
Examination of theory and research addressing the use of technologies in the organizational communication process.
Prerequisites: grad st.
Course Rules: Counts as repeat of Comm 860 w/ same topic.
Last Taught: Spring 2015.
Current Offerings: http://uwm.edu/schedule

COMMUN 820 Communication in Customer Service Settings
3 cr. Graduate.
Theory and research addressing communication in customer service settings.
Prerequisites: grad st.
Course Rules: Counts as a repeat of Commun 860 w/similar title.
Current Offerings: http://uwm.edu/schedule

COMMUN 823 Seminar in Small Group Communication
3 cr. Graduate.
Examination of theory and research in small group communication: methods, applications, and problems of small group communication.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 827 Seminar in Instructional Communication
3 cr. Graduate.
Theory and practice of teaching communication using face-to-face and online methods and in academic (college) and organizational (training) environments.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 830 Negotiation
3 cr. Graduate.
Theory and research addressing negotiation as fundamentally a communicative process.
Prerequisites: grad st.
Course Rules: Counts as repeat of Commun 860 w/ same topic.
Current Offerings: http://uwm.edu/schedule

COMMUN 835 Seminar in Contemporary Public Address
3 cr. Graduate.
Observation and analysis of verbal and nonverbal messages, forms, situations, strategies and media in contemporary public communication.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 837 Instructional Communication in the College Classroom
3 cr. Graduate.
Theory and practice of instructional communication in the college classroom; research connected to students’ own teaching development.
Prerequisites: grad st
Last Taught: Fall 2016, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

COMMUN 850 Seminar in Intercultural Communication
3 cr. Graduate.
Examination of advanced theory and research in intercultural and international communication; methods and problems of intercultural communication research.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2014, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

COMMUN 860 Seminar: Issues in Communication:
3 cr. Graduate.
In-depth study and discussion of application of communication research and theory. Content varies.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMMUN 862 Public Deliberation
3 cr. Graduate.
Emerging literature on deliberative democracy; ethical, practical, and political possibilities for public argument and decision making.
Prerequisites: grad st
Last Taught: Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule
COMMUN 864 Communication and Social Influence
3 cr. Graduate.
Advanced theory and experimental studies in persuasion.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 865 Theory and Practice of Mediation
3 cr. Graduate.
Course extends learning about mediator communication competence by exploring professional, ethical and theoretical issues in third party intervention. Students receive advanced mediation training and field experience.
Prerequisites: grad st; Commun 665(P).
Last Taught: Spring 2015, Spring 2013, Fall 2009, Fall 2007.
Current Offerings: http://uwm.edu/schedule

COMMUN 872 Rhetorics of Constituting Community and Social Controversy
3 cr. Graduate.
Advanced theories of promoting and disrupting identification or division and social conflict through rhetoric.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

COMMUN 873 The Digital Mirror
3 cr. Graduate.
Public messages about a wide range of technologies as purposeful statements about our identity as a technoculture and technocitizens.
Prerequisites: grad st
Last Taught: Spring 2015, Fall 2011, Fall 2008.
Current Offerings: http://uwm.edu/schedule

COMMUN 874 Rhetoric of Women's Rights in the US
3 cr. Graduate.
The rhetorical tradition of women's rights in the U.S. and its use as a lens to reflect on rhetorical theory and criticism.
Prerequisites: grad st
Last Taught: Spring 2018, Fall 2013, Spring 2011.
Current Offerings: http://uwm.edu/schedule

COMMUN 881 Interpersonal Health Communication
3 cr. Graduate.
Examination of theory and research in interpersonal communication in the management of health and illness.
Prerequisites: grad st
Course Rules: Counts as repeat of Commun 860 w/ same topic.
Last Taught: Fall 2010.
Current Offerings: http://uwm.edu/schedule

COMMUN 882 The Rhetoric of Kenneth Burke
3 cr. Graduate.
Synthesis, analysis, and critique of Kenneth Burke’s work on rhetoric and its influences.
Prerequisites: grad st
Last Taught: Fall 2014, Fall 2009.
Current Offerings: http://uwm.edu/schedule

COMMUN 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

COMMUN 893 Rhetoric of(and the Internet)
3 cr. Graduate.
The concept of 'The Internet' in popular culture; opportunities and obstacles the internet presents to rhetorical communication.
Prerequisites: grad st
Last Taught: Fall 2009, Fall 2006.
Current Offerings: http://uwm.edu/schedule

COMMUN 900 Philosophy and Practice of Communication
3 cr. Graduate.
Philosophical and theoretical perspectives on the scholarly study of human communication.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

COMMUN 913 Advanced Topics in Group Communication:
3 cr. Graduate.
Theory of and research on emerging issues related to the study and teaching of group communication.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMMUN 950 Theory Building in Communication and Culture
3 cr. Graduate.
The processes of conducting scientific inquiry about communication and culture.
Prerequisites: grad st; Commun 750(P); Commun 850(P).
Current Offerings: http://uwm.edu/schedule

COMMUN 965 The Discourse of Conflict
3 cr. Graduate.
Conflict talk in various contexts; collection, analysis, and transcription of the discourse of conflict.
Prerequisites: grad st; Commun 665(P), 765 (P), or 865(P)
Last Taught: Fall 2014, Fall 2011, Spring 2010.
Current Offerings: http://uwm.edu/schedule

COMMUN 971 Meta-Analysis: Practice and Application
3 cr. Graduate.
Meta-analysis as means of quantitative literature summary for social sciences with application to education and health.
Prerequisites: grad st.
Course Rules: Counts as repeat of Commun 972 w/similar subtitle.
Last Taught: Fall 2017, Fall 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule
COMMUN 972 Advanced Methods in Communication Research: 3 cr. Graduate.
Multivariate statistical methods. Advanced and emerging new methodologies for communication research.
Prerequisites: grad st; Commun 700(P), 701(P), 702(P), 770(P); or cons instr
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2015, Fall 2012, Fall 2009.
Current Offerings: http://uwm.edu/schedule

COMMUN 973 Topics in Rhetorical Research: 3 cr. Graduate.
In-depth examination of a particular area of rhetorical research, with focus on methodologies; students reflect on epistemic, publication, and professional issues.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

COMMUN 981 Communication and HIV/AIDS 3 cr. Graduate.
Communication issues and challenges facing individuals and agencies surrounding HIV and AIDS in the United States and other countries.
Prerequisites: grad st
Last Taught: Spring 2015, Spring 2010.
Current Offerings: http://uwm.edu/schedule

COMMUN 990 Research and Thesis 1-12 cr. Graduate.
Production of a thesis under the supervision of student’s major professor with consultation of the degree committee.
Prerequisites: grad st & cons instr.
Current Offerings: http://uwm.edu/schedule

COMMUN 998 Communication Internship 1-3 cr. Graduate.
Student applies course work in profit or nonprofit setting; synthesizes course and work experience in graded paper.
Prerequisites: grad st; 12 grad cr Commun or, for mediation interns, 6 grad cr from Mediation Cert course list; writ cons sponsoring agency or organization; cons supervising faculty member & Commun grad prog dir.
Course Rules: Retakable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

COMMUN 999 Independent Study 1-3 cr. Graduate.
Supervised investigation of a particular topic area either not covered by other communication courses or at a level of sophistication beyond that in other courses.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 3 cr max for M.A. students, and 9 cr max for Ph.D. students.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael R. Allen</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Nancy Burrell</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Kathryn A. Dindia</td>
<td>Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leslie Harris</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
<td>✔</td>
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</tr>
<tr>
<td>John R. Johnson</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Georgia</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>John Jordan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Sang-Yeon Kim</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Tae-Seop Lim</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Edward A. Mabry</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kathryn M. Olson</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Arizona</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erin Ruppel</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
<td></td>
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<tr>
<td>Erin Sahlstein Parcell</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Hayeon Song</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Communication, BA

Communication is a broad field, covering all of the different ways humans can exchange information - orally, through written word, and through nonverbal and visual cues. The study of communication involves the analysis of the communication patterns, settings, and tools that people use. Regardless of industry, in survey after survey, almost every employer ranks communication skills as one of their top three criteria when hiring.

Communication students at UWM not only graduate with top-notch communication skills, but they also have a thorough understanding of communication as a process and as a system. They are the individuals who can work with all types of people, bringing out their best. Communication majors go on to all types of work, but the common denominator is that their work most likely involves lots of interaction with others. Sales, marketing, media, public relations, human resources, mediation, law, journalism, merchandising, advertising, education, public office, and social welfare are just a few of the most popular post-college careers. At UWM, students can focus their Communication electives around four tracks: interpersonal communication; rhetoric and public communication; intercultural communication; or technology and communication. The Communication major can be completed entirely
online if desired. Or, students can mix-and-match online and in-person classes in whatever combination they wish.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
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<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
</tbody>
</table>

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code | Title                                                                 | Credits |
--- |----------------------------------------------------------------------|--------|
** | Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language) | 0-18   |
** | Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language) |        |

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

Code | Title                                                                 | Credits |
--- |----------------------------------------------------------------------|--------|
** | Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above | 9      |
** | Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas. |        |
** | Complete 9 credits in combination of the two options above. |        |

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (H), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code | Title                                                                 | Credits |
--- |----------------------------------------------------------------------|--------|
** | Select 3 credits                                                                 | 3      |
** | Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. | 12     |
** | Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. | 12     |

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Communication Major Requirements
A major in communication consists of at least 36 credits in communication courses. Students must earn at least a B- grade in COMMUN 101, COMMUN 103, and COMMUN 105. At least 18 of the 36 credits must be numbered 300 or above, 15 of these taken in residence at UWM.

Graduation with a major in Communication requires a cumulative GPA of at least 2.500 in all communication courses attempted at UWM as well as a 2.500 GPA in all major credits attempted, including any transfer work. All courses in the major, with the exception of COMMUN 298, must be taken for graded credit. The College of Letters and Science requires that students complete a research experience in their major. The Department of Communication has structured COMMUN 335, COMMUN 370, and COMMUN 372 to satisfy that requirement. In these courses, students must produce a written final research paper that involves conducting independent research in addition to evaluating research in the field and integrating it with their findings. Students will present their research in oral form to their course colleagues.

Code | Title                                                                 | Credits |
--- |----------------------------------------------------------------------|--------|
** | COMMUN 101 Introduction to Interpersonal Communication | 3      |
** | COMMUN 103 Public Speaking | 3      |
** | COMMUN 105 Business and Professional Communication | 3      |

Select one of the following:
A maximum of 6 credits earned in any combination of the following courses may count toward the minimum number of credits required for the major in communication:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 288</td>
<td>Research Practicum</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 298</td>
<td>Internship in Communication</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 597</td>
<td>Practicum in Teaching Communication</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 588</td>
<td>Research Practicum</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 698</td>
<td>Internship in Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 699</td>
<td>Advanced Independent Reading</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Cross-listed Courses**

The following courses offered by other academic units may be used to fulfill the requirements of the undergraduate major and minor in communication:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 209</td>
<td>Language in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
</tr>
</tbody>
</table>

**Related Courses**

The following courses offered by the Department of English may be of interest to students in communication but may not be used to fulfill requirements of the major and minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing, Professional and Technical Communications</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 436</td>
<td>Technical Documentation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmiilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.
Honors in the Major
Communication majors who want to graduate with honors in the major must attain a 3.000 GPA on all UWM graded credits attempted, a 3.750 GPA on all coursework taken to complete the major, and a 3.750 GPA on advanced (300 level and above) courses in the major. A minimum of 24 credits, at least 15 at the 300-level or above, in communication courses must be taken in residence at UWM.

Honors in the College of Letters and Science
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, commdept@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/communication/undergraduate/

Communication, MA
Related Certificates
- Graduate Certificate in Mediation and Negotiation (http://uwm.edu/graduateschool/mediation-negotiation-certificate)
- Graduate Certificate in Rhetorical Leadership (http://uwm.edu/graduateschool/rhetorical-leadership-certificate)
- Graduate Certificate in Professional Writing and Communication (http://uwm.edu/graduateschool/professional-writing-communication-certificate)
- Graduate Certificate in Teaching and Learning in Higher Education (http://uwm.edu/graduateschool/teaching-learning-higher-education-certificate)

The Department of Communication offers MA and PhD programs. The Master of Arts is designed to provide breadth and depth of study in the following areas: Organizational/Professional Communication, Intercultural/International Communication, Interpersonal Communication/Mediation, and Rhetoric/Public Communication. The program provides initial and advanced preparation for a variety of careers including continued study leading to the PhD degree.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission/) plus these departmental requirements to be considered for admission to the program:

1. Possess the equivalent of an undergraduate major in speech, speech communication, or related areas.
2. Possess an undergraduate grade point average of 3.00 in the major.
3. Submit three letters of recommendation from persons capable of judging the applicant's capacity for success in a graduate program of study.
4. Submit scores from verbal, quantitative, and analytical sections of the Graduate Record Examination.
5. Submit a sample of written work from an academic and/or professional assignment.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants without the requisite grade point average may be considered for admission on a probationary basis.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The major professor should be designated no later than the end of the student's first year of enrollment. The incoming student is assigned the Graduate Coordinator or other program faculty member as an initial advisor until a major professor is selected.

Credits and Courses
The minimum degree requirement is 30 credits, including 24 credits taken in the Department of Communication; that is, a maximum of 6 credits taken outside the department may count toward the total credits required. Students must take 24 of the 30 required credits in courses numbered 700 or above.

Students must complete either a professional project or a thesis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General</td>
<td></td>
</tr>
</tbody>
</table>
The MA Portfolio Project will provide students with an opportunity to:

- Compile documentation of academic accomplishments during the pursuit of an MA
- Synthesize the primary contributions of MA coursework
- Critically reflect upon accomplishments in written work.
- Reflect upon the accomplishment of their initial goals and objectives for the MA, and articulate future career goals and objectives that will utilize the skills/knowledge gained.
- Establish a connection with a field expert (e.g., an individual who works in the student's desired employment sector or a member of a community group with whom the student hopes to work) and gain additional information about activities the student may wish to pursue after graduation.

**Thesis Option**

A thesis involves applied or basic research and is a proven method for developing specialized knowledge and skills that can enhance an individual's expertise within a substantive area of study. A thesis is recommended for students who intend to continue study toward the Ph.D. degree or plan research-related employment. If the thesis option is elected, the student must initiate and write an original research project under the guidance of his/her major professor; the student also must pass an oral defense of the finished project conducted by his/her thesis committee.

**Time Limit**

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

**Communication, MA: Rhetorical Leadership**

Interested students may complete a concentration in rhetorical leadership that will be designated on their transcripts.

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Possess the equivalent of an undergraduate major in speech, speech communication, or related areas.
2. Possess an undergraduate grade point average of 3.00 in the major.
3. Submit three letters of recommendation from persons capable of judging the applicant's capacity for success in a graduate program of study.
4. Submit scores from verbal, quantitative, and analytical sections of the Graduate Record Examination.
5. Submit a sample of written work from an academic and/or professional assignment.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants without the requisite grade point average may be considered for admission on a probationary basis.

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The major professor should be designated no later than the end of the student's first year of enrollment. The incoming student is assigned the Graduate
Coordinator or other program faculty member as an initial advisor until a major professor is selected.

## Credits and Courses

The minimum degree requirement is 30 credits, including 24 credits taken in the Department of Communication; that is, a maximum of 6 credits taken outside the department may count toward the total credits required. Students must take 24 of the 30 required credits in courses numbered 700 or above.

Students must complete either a professional project or a thesis.

### Electives

Students complete 24 credits in elective courses, most of them selected from courses in the Department of Communication, with the following caveats. A maximum of 6 credits below the 700 level may be counted toward the degree. A maximum of 6 credits in courses outside the department may count toward the degree. No more than 9 credits selected from the combination of COMMUN 998, COMMUN 999, and courses outside the department may count toward the degree. In addition, the following restrictions on the number of credits that may count toward the degree are placed on these courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>General</strong></td>
<td></td>
</tr>
<tr>
<td>COMMUN 800</td>
<td>Proseminar: The Discipline of Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Methods</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 700</td>
<td>Quantitative Research in Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 701</td>
<td>Critical Analysis of Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 702</td>
<td>Qualitative Research in Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 770</td>
<td>Measurement and Evaluation in Speech Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

### MA Portfolio Project

At the master’s level, the MA Portfolio Project (MAPP) is designed to allow students to synthesize their accomplishments during the MA program and identify their strengths and needs as they pursue objectives beyond graduate school. In conjunction with the completion of 30-credit hours (per Department of Communication MA guidelines), students who successfully complete a MAPP will meet the requirements for the MA in Communication.

The MA Portfolio Project will provide students with an opportunity to:

- Compile documentation of academic accomplishments during the pursuit of an MA
- Synthesize the primary contributions of MA coursework
- Critically reflect upon accomplishments in written work.
- Reflect upon the accomplishment of their initial goals and objectives for the MA, and articulate future career goals and objectives that will utilize the skills/knowledge gained.
- Establish a connection with a field expert (e.g., an individual who works in the student's desired employment sector or a member of a community group with whom the student hopes to work) and gain additional information about activities the student may wish to pursue after graduation.
- Reflect upon one's understanding of future pursuits and draw connections between the MA experience and the nature of this type of work/service.

### Thesis Option

A thesis involves applied or basic research and is a proven method for developing specialized knowledge and skills that can enhance an individual’s expertise within a substantive area of study. A thesis is recommended for students who intend to continue study toward the Ph.D. degree or plan research-related employment. If the thesis option is elected, the student must initiate and write an original research project under the guidance of his/her major professor; the student also must pass an oral defense of the finished project conducted by his/her thesis committee.

### Time Limit

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

### Rhetorical Leadership Concentration

The concentration requires the following courses, which students may select to meet the MA degree’s course requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td>COMMUN 772</td>
<td>Rhetorical Leadership and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 872</td>
<td>Rhetorics of Constituting Community and Social Controversy</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select three of the following:</td>
<td></td>
</tr>
<tr>
<td>COMMUN 655</td>
<td>Cultural Training and Adjustment</td>
<td></td>
</tr>
<tr>
<td>COMMUN 667</td>
<td>Great American Speakers and Issues</td>
<td></td>
</tr>
<tr>
<td>COMMUN 672</td>
<td>Communication and Social Order</td>
<td></td>
</tr>
<tr>
<td>COMMUN 701</td>
<td>Critical Analysis of Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 735</td>
<td>Rhetorical Theory (title change pending)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 835</td>
<td>Seminar in Contemporary Public Address</td>
<td></td>
</tr>
<tr>
<td>COMMUN 860</td>
<td>Seminar: Issues in Communication: (Subtitle, with a rhetorical topic)</td>
<td></td>
</tr>
</tbody>
</table>

#### MA Portfolio Project

At the master’s level, the MA Portfolio Project (MAPP) is designed to allow students to synthesize their accomplishments during the MA program and identify their strengths and needs as they pursue objectives beyond graduate school. In conjunction with the completion of 30-credit hours (per Department of Communication MA guidelines), students who successfully complete a MAPP will meet the requirements for the MA in Communication.
COMMUN 862  Public Deliberation
COMMUN 865  Theory and Practice of Mediation
COMMUN 872  Rhetorics of Constituting Community and Social Controversy (if not selected above)
COMMUN 873  The Digital Mirror
COMMUN 882  The Rhetoric of Kenneth Burke
COMMUN 893  Rhetoric of and the Internet
COMMUN 972  Advanced Methods in Communication Research: (Subtitle, with a rhetorical topic) 1
COMMUN 998  Communication Internship (with rhetorical leadership topic directed by a member of the Rhetorical Leadership Committee)

Total Credits 15

1  Students may count COMMUN 701 or COMMUN 972, but not both, toward concentration requirements. COMMUN 701 can count as a concentration elective or the required methods course above—not both.

These courses complete one content area and 12 elective credits of the degree.

Communication, Minor

Communication is a broad field, covering all of the different ways humans can exchange information - orally, through written word, and through nonverbal and visual cues. The study of communication involves the analysis of the communication patterns, settings, and tools that people use. Regardless of industry, in survey after survey, almost every employer ranks communication skills as one of their top three criteria when hiring.

Communication students at UWM not only graduate with top-notch communication skills, but they also have a thorough understanding of communication as a process and as a system. They are the individuals who can work with all types of people, bringing out their best. Sales, marketing, media, public relations, human resources, mediation, law, journalism, merchandising, advertising, education, public office, and social welfare are just a few of the most popular post-college careers.

At UWM, students can focus their Communication electives around four tracks: interpersonal communication; rhetoric and public communication; intercultural communication; or technology and communication.

The Communication minor can be completed entirely online if desired. Or, students can mix-and-match online and in-person classes in whatever combination they wish.

Requirements

The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM, and at least a 2.500 GPA on all minor credits attempted when any transfer work is included along with the UWM work. In addition, students must earn at least a B- grade in each of the three core courses, COMMUN 101, COMMUN 103, and COMMUN 105. A minor in communication consists of at least 18 credits in communication courses, as distributed below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 105</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 9 credits numbered 300 or above (must be taken in residence at UWM) 9

Total Credits 18

Specialized Courses: Variable Content and Independent Study

In addition to offering standard coursework, the Department of Communication offers undergraduates opportunities for specialized study.

Variable Content Courses

The content of the following varies each semester. Specific topics are announced in the Schedule of Classes (http://www4.uwm.edu/schedule):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 192</td>
<td>First-Year Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 631</td>
<td>Current Topics in Interpersonal Communication/Conflict Management</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 641</td>
<td>Current Topics in Organizational/Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 651</td>
<td>Current Topics in Rhetorical/Public Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 660</td>
<td>Communication Capstone Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 662</td>
<td>Seminar in Communication:</td>
<td>3</td>
</tr>
</tbody>
</table>

Independent Study Courses

These courses offer students the opportunity to work and study on a one-on-one basis with a faculty member. Students interested in taking any of the following should contact an individual faculty member to determine the faculty member’s willingness to sponsor the enrollment:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 288</td>
<td>Research Practicum</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 588</td>
<td>Research Practicum</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 597</td>
<td>Practicum in Teaching Communication</td>
<td>1-3</td>
</tr>
<tr>
<td>COMMUN 699</td>
<td>Advanced Independent Reading</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Cross-listed Courses

The following courses offered by other academic units may be used to fulfill the requirements of the undergraduate major and minor in communication:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 209</td>
<td>Language in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
</tr>
</tbody>
</table>
Related Courses
The following courses offered by the Department of English may be of interest to students in communication but may not be used to fulfill requirements of the major and minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing, Professional and Technical Communications</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 436</td>
<td>Technical Documentation</td>
<td>3</td>
</tr>
</tbody>
</table>

Contact Information
Current Students contact the Department directly, commdept@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/communication/undergraduate/

Communication, PhD

Related Certificates
- Graduate Certificate in Mediation and Negotiation (http://uwm.edu/graduateschool/mediation-negotiation-certificate)
- Graduate Certificate in Rhetorical Leadership (http://uwm.edu/graduateschool/rhetorical-leadership-certificate)
- Graduate Certificate in Professional Writing and Communication (http://uwm.edu/graduateschool/professional-writing-communication-certificate)
- Graduate Certificate in Teaching and Learning in Higher Education (http://uwm.edu/graduateschool/teaching-learning-higher-education-certificate)

The Department of Communication offers MA and PhD programs. The Doctor of Philosophy in Communication provides study and training for entry into academic or professional careers that would necessitate theory-driven basic or applied research on communication practices and outcomes. The program’s thrust emphasizes studying the effects of professional communication practices on organizational goals and outcomes. The program's thrust emphasizes studying the effects of professional communication practices on organizational goals and outcomes. The program's thrust emphasizes studying the effects of professional communication practices on organizational goals and outcomes. The program's thrust emphasizes studying the effects of professional communication practices on organizational goals and outcomes. The program's thrust emphasizes studying the effects of professional communication practices on organizational goals and outcomes.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission), hold a master’s degree in communication or a related field, and meet these departmental requirements to be considered for admission to the program in regular status:

- Have a cumulative GPA of at least a 3.33 (B+) in course work for the master’s degree.
- Submit letters of recommendation from at least three (3) communication professionals attesting to the student’s capability to perform satisfactorily at the doctoral level (academic references preferred).
- Submit a writing sample that demonstrates the applicant’s analytical and critical thinking skills.

Applicants lacking the requisite GPA, and those without the Master of Arts/Science in Communication (or an equivalent degree) may be considered for admission on probation, and may be required to complete preparatory coursework.

Reapplication/Readmission
Students who receive the MA in Communication from UWM must reapply to be considered for admission to the PhD program.

Major Professor as Advisor
Initially, unless a student specifically requests a particular faculty member, all doctoral students are assigned an “interim” advisor. After the completion of 12 credits, a student is required to designate a faculty member with specialized interests compatible with those of the student to act as the major professor. The major professor is expected to assist the student in planning the remainder of the program of studies, chair the student’s preliminary examination committee, supervise the completion of the PhD dissertation, and conduct of the dissertation defense meeting. All students should consult the departmental handbook for additional details on departmental policies and procedures.

Residence
The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

Credits and Courses
To fulfill the credit requirement for the PhD in Communication, a student must complete at least 54 credits beyond the master’s degree, of which at least 48 credits must be in courses numbered 700 or above. Thirty-three (33) credits must be taken from the Communication Department. Students may complete 6 credit hours in courses below 700 offered outside the Department of Communication. Courses taken toward a master’s degree will not apply to the doctoral program of studies. The 54 credits must be distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 900</td>
<td>Philosophy and Practice of Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 990</td>
<td>Research and Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits: 54
Students will determine additional research-tool credits in consultation with their advisor, so as to demonstrate methodological competence in their chosen area of study.

No more than 12 credits of COMMUN 990 may be applied toward the 54-credit requirement.

**Comprehensive Preliminary Examination**

A student must pass all components of a comprehensive preliminary examination to be advanced to candidacy for the doctoral degree. The examining committee is responsible for setting an examination schedule agreeable to all parties subject to the constraints that:

1. examinations must include at least 18 hours of questioning, and
2. must be completed in no longer than two (2) calendar weeks.

Each member of the examining committee must read and pass the student on all examination questions the faculty member contributes. The student must receive a passing evaluation from all members of the committee on the written portion of the examination in order to attempt an oral defense of the examination. An affirmative vote constitutes the committee’s decision to advance the student to candidacy for the doctoral degree.

Students who fail the doctoral preliminary examination may not proceed to the dissertation. The exam may be retaken only once. The preliminary examination must be successfully completed within five years of initial enrollment.

**Dissertation**

The candidate, under the supervision of the major professor and in collaboration with a dissertation committee, must write a dissertation that demonstrates the ability to formulate a research topic and pursue an independent and original investigation of the chosen topic. The practices for the dissertation will conform to the guidelines established by the UWM Graduate School. The dissertation committee shall be composed of the major professor and four additional graduate faculty members (at least three of whom must be from the Communication Department’s graduate faculty). The dissertation committee is responsible for assessing the dissertation project, which involves approving the dissertation prospectus proposal, reviewing working drafts of research in progress, and, finally, evaluating the candidate's ability to defend decisions made during the course of research. After submission of a reading copy of the dissertation to the faculty dissertation committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate’s oral remarks, the dissertation committee will vote on passing the candidate’s dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

**Time Limit**

All components of the PhD program must be completed within 10 years of matriculation.

**Communication, PhD: Rhetorical Leadership**

Interested students may complete a concentration in rhetorical leadership that will be designated on their transcripts.

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission), hold a master’s degree in communication or a related field, and meet these departmental requirements to be considered for admission to the program in regular status:

- Have a cumulative GPA of at least a 3.33 (B+) in course work for the master’s degree.
- Submit letters of recommendation from at least three (3) communication professionals attesting to the student’s capability to perform satisfactorily at the doctoral level (academic references preferred).
- Submit a writing sample that demonstrates the applicant’s analytical and critical thinking skills.

Applicants lacking the requisite GPA, and those without the Master of Arts/Science in Communication (or an equivalent degree) may be considered for admission on probation, and may be required to complete preparatory coursework.

**Reapplication/Readmission**

Students who receive the MA in Communication from UWM must reapply to be considered for admission to the PhD program.

**Major Professor as Advisor**

Initially, unless a student specifically requests a particular faculty member, all doctoral students are assigned an “interim” advisor. After the completion of 12 credits, a student is required to designate a faculty member with specialized interests compatible with those of the student to act as the major professor. The major professor is expected to assist the student in planning the remainder of the program of studies, chair the student’s preliminary examination committee, supervise the completion of the PhD dissertation, and conduct the dissertation defense meeting. All students should consult the departmental handbook for additional details on departmental policies and procedures.

**Residence**

The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

**Credits and Courses**

To fulfill the credit requirement for the PhD in Communication, a student must complete at least 54 credits beyond the master’s degree, of which at least 48 credits must be in courses numbered 700 or above. Thirty-three (33) credits must be taken from the Communication Department. Students may complete 6 credit hours in courses below 700 offered outside the Department of Communication. Courses taken toward a
The candidate, under the supervision of the major professor and in collaboration with a dissertation committee, must write a dissertation that demonstrates the ability to formulate a research topic and pursue an independent and original investigation of the chosen topic. The practices for the dissertation will conform to the guidelines established by the UWM Graduate School. The dissertation committee shall be composed of the major professor and four additional graduate faculty members (at least three of whom must be from the Communication Department's graduate faculty). The dissertation committee is responsible for assessing the dissertation project, which involves approving the dissertation prospectus proposal, reviewing working drafts of research in progress, and, finally, evaluating the candidate's ability to defend decisions made during the course of research. After submission of a reading copy of the dissertation to the faculty dissertation committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate's oral remarks, the dissertation committee will vote on passing the candidate's dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

**Time Limit**

All components of the PhD program must be completed within 10 years of matriculation.

**Transcript-Designated Concentration in Rhetorical Leadership**

Within the Ph.D., students may elect to fulfill a transcript-designated concentration in Rhetorical Leadership by completing 15 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 772</td>
<td>Rhetorical Leadership and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice or COMMUN 872</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 701</td>
<td>Critical Analysis of Communication</td>
<td></td>
</tr>
<tr>
<td>COMMUN 735</td>
<td>Rhetorical Theory (title change pending)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 835</td>
<td>Seminar in Contemporary Public Address</td>
<td></td>
</tr>
<tr>
<td>COMMUN 860</td>
<td>Seminar: Issues in Communication: (Subtitle, with a rhetorical topic)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 862</td>
<td>Public Deliberation</td>
<td></td>
</tr>
<tr>
<td>COMMUN 865</td>
<td>Theory and Practice of Mediation</td>
<td></td>
</tr>
<tr>
<td>COMMUN 872</td>
<td>Rhetorics of Constituting Community and Social Controversy (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 873</td>
<td>The Digital Mirror</td>
<td></td>
</tr>
<tr>
<td>COMMUN 882</td>
<td>The Rhetoric of Kenneth Burke</td>
<td></td>
</tr>
<tr>
<td>COMMUN 893</td>
<td>Rhetoric of/and the Internet</td>
<td></td>
</tr>
<tr>
<td>COMMUN 972</td>
<td>Advanced Methods in Communication Research: (Subtitle, with a rhetorical topic)</td>
<td></td>
</tr>
<tr>
<td>COMMUN 998</td>
<td>Communication Internship (with rhetorical leadership topic directed by a member of the Rhetorical Leadership Committee)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 15

1. Students may count COMMUN 701 or COMMUN 972, but not both, toward concentration requirement.
Mediation and Negotiation, Graduate Certificate

The Department of Communication, in cooperation with the Master’s in Human Resources and Labor Relations (MHRLR) and the Lubar School of Business, offers the Graduate Certificate in Mediation and Negotiation. The program of study is designed to provide practical and theoretical knowledge for students who wish to pursue or advance careers that involve managing or resolving disputes in organizational, educational, community, or family contexts. The program is designed to meet the increasing need of business, organized labor, public sector, and community organizations for people with skills in conflict resolution.

Using an interdisciplinary approach, the program offers a basic knowledge of mediation and negotiation between individuals and across organizations, allows some specialization in further coursework, and is integrated with a final course involving either field-work or a research paper written under the direction of an expert in the area. Students can complete the Graduate Certificate in Mediation and Negotiation while enrolled either part-time or full-time.

With the approval of the program, students admitted to either the Master of Arts in Communication or the Master of Human Resources and Labor Relations degree program may apply courses taken to meet certificate requirements toward their degree.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Eligibility and Admission
Students applying for the Certificate Program in Mediation and Negotiation must hold a bachelor’s degree and must have earned a 2.75 GPA overall or must furnish substantial evidence of ability to succeed in graduate-level work.

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

Certificate Requirements

Credits and Courses
The certificate requires 12 credits, including 9 credits of coursework and 3 credits of field work or research.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 666</td>
<td>Introduction to Mediation</td>
<td>3</td>
</tr>
<tr>
<td>ECON 753</td>
<td>Collective Bargaining</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective
Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 865</td>
<td>Theory and Practice of Mediation</td>
<td></td>
</tr>
<tr>
<td>IND REL 715</td>
<td>Workplace Dispute Resolution</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
</tbody>
</table>

Field Work or Research Requirement
Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 998</td>
<td>Communication Internship</td>
<td></td>
</tr>
<tr>
<td>COMMUN 999</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>IND REL 801</td>
<td>Research Project in Industrial and Labor Relations</td>
<td></td>
</tr>
<tr>
<td>IND REL 921</td>
<td>Internship in Industrial Relations</td>
<td></td>
</tr>
<tr>
<td>IND REL 999</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 799</td>
<td>Reading and Research</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 12

Recommended or Related Courses
Not required for the Certificate

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 710</td>
<td>Managerial Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 823</td>
<td>Seminar in Small Group Communication</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 510</td>
<td>Human Relations for Community Organizations &amp; Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>IND REL 711</td>
<td>Labor Relations Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:

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

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

**Contact Information**
BLT, 812

Phone: (414) 229-4310
mhrlr@uwm.edu

http://uwm.edu/human-resources-labor-relations/graduate/certificates/

---

**Rhetorical Leadership, Graduate Certificate**

Leadership is a highly valued, yet always scarce resource in all areas requiring coordinated action: civil society, professional work, profit and non-profit venues, religious and social action contexts. Communication's Rhetorical Leadership certificate program prepares leaders with humanistic knowledge, skills and attitudes through five graduate courses.

"Rhetorical Leadership and Ethics" covers rhetoric's role in and potential for responsible leadership in multiple arenas; it is informed by the long history of debate over the legitimacy of studying rhetoric as a means of promoting joint action.

"Theories of Rhetorical Communication" introduces certificate students to the vast, nearly three millennia-long theoretical range of the rhetorical tradition.

"Communication and Social Order" examines how existing institutions and values get established and "naturalized" using symbolic action and conversely how they can be challenged strategically through rhetoric.

The more advanced "Rhetoric of Constituting Community and Social Controversy" addresses explicitly the rhetorical range available to leaders, whether their main goal is constituting communities or promoting change in ways that the existing decision-making channels cannot accommodate.

"Argumentation in Theory and Practice" integrates argumentative theory and practice in ways that are useful for potential leaders; it involves some performance-based learning that requires students to test their preferred theory alternatives in action.

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

---

### Eligibility and Admission

Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted to a certificate program.

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

### Certificate Requirements

#### Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 772</td>
<td>Rhetorical Leadership and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>or COMMUN 872</td>
<td>Rhetorics of Constituting Community and Social Controversy</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**
Select three of the following: 9 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
</tr>
<tr>
<td>COMMUN 667</td>
<td>Great American Speakers and Issues</td>
</tr>
<tr>
<td>COMMUN 672</td>
<td>Communication and Social Order</td>
</tr>
<tr>
<td>COMMUN 701</td>
<td>Critical Analysis of Communication</td>
</tr>
<tr>
<td>COMMUN 735</td>
<td>Rhetorical Theory (title change pending)</td>
</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice (if not selected above)</td>
</tr>
<tr>
<td>COMMUN 835</td>
<td>Seminar in Contemporary Public Address</td>
</tr>
<tr>
<td>COMMUN 860</td>
<td>Seminar: Issues in Communication: (Subtitle, with a rhetorical topic)</td>
</tr>
<tr>
<td>COMMUN 862</td>
<td>Public Deliberation</td>
</tr>
<tr>
<td>COMMUN 865</td>
<td>Theory and Practice of Mediation</td>
</tr>
<tr>
<td>COMMUN 872</td>
<td>Rhetorics of Constituting Community and Social Controversy (if not selected above)</td>
</tr>
<tr>
<td>COMMUN 873</td>
<td>The Digital Mirror</td>
</tr>
<tr>
<td>COMMUN 882</td>
<td>The Rhetoric of Kenneth Burke</td>
</tr>
<tr>
<td>COMMUN 893</td>
<td>Rhetoric of/and the Internet</td>
</tr>
<tr>
<td>COMMUN 973</td>
<td>Topics in Rhetorical Research: (Subtitled)</td>
</tr>
</tbody>
</table>
Students who have little experience in positions of responsibility will be encouraged to participate in a relevant internship during the course of their studies. The program will assist students in identifying appropriate opportunities.

**Grade Point Average Requirement**
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Transfer Credit**
No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the five courses that constitute the certificate program. The Rhetorical Leadership Committee will make such determinations, and its decision is final. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program. No transfer credit is allowed for post-graduate students.

**Grade Point Average Requirement**
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:
- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

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

The alarming rate of climate change, habitat destruction and, species extinction over the last 2 decades has catalyzed our resolve to find solutions to growing environmental problems:

- the contamination of air, water and soil;
- the spread of toxic chemicals;
- invading species driving out native populations, and
- the progressive loss of habitats that species need to grow, survive, and reproduce.

These problems are not simple; finding solutions requires the integration and interpretation of biological, chemical, geological, and social sciences.

Coursework in our undergraduate interdisciplinary program provides training in areas such as ecosystem management, natural resources conservation, environmental assessment, and environmental education.

Programs

- Conservation and Environmental Science, Minor (p. 1157)
- Conservation and Environmental Sciences, BA (p. 1158)
- Conservation and Environmental Sciences, BS (p. 1163)

Conservation and Environmental Science Courses

CES 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

CES 210 Introduction to Conservation and Environmental Science
3 cr. Undergraduate.
Relations between human populations and resource depletion, pollution and ecosystem disturbance; search for solutions. Discussion section includes some community activities with environmental organization. 2 hrs lec, 1 hr dis
Prerequisites: none.
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CES 289 Internship in Environmental Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in CES; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

CES 290 Seminar: Cool Power to Slow Global Warming
3 cr. Undergraduate.
Climate change - myth? science? Global warming causes; energy for sustainability; non-renewable (coal, oil, nuclear power), renewable (sun, wind, hydro, biomass, biogas) sources; predictions for 2050.
Prerequisites: none.
General Education Requirements: NS
Last Taught: Spring 2007.
Current Offerings: http://uwm.edu/schedule

CES 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2016, Spring 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule

CES 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l preqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 1984.
Current Offerings: http://uwm.edu/schedule

CES 451 Field Methods in Conservation
3 cr. Undergraduate/Graduate.
Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab.
Prerequisites: jr st; Bio Sci 310(P) or equiv or cons instr.
Course Rules: Jointly offered with and counts as repeat of Bio Sci 451.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

CES 461 The Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for global sustainability.
Prerequisites: jr st; CES 210(P) or cons instr.
Course Rules: CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

CES 471 Practicum in Natural Resources Management
4 cr. Undergraduate/Graduate.
Preparation and presentation of a natural resource or environmental management plan for a real-world client. 3 hrs lec, 1 hr. dis.
Prerequisites: sr st; Bio Sci 310(P); declared CES major; or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
At UWM, students with a passion for nature and the environment can obtain a solid education in the natural sciences that are central to environmental science - biology, geosciences, and chemistry - and the social sciences of geography, economics, and politics which guide the application of conservation and environmental science in the real world.

Students at UWM can focus their conservation and environmental science work around land resources, water resources, biological resources/biodiversity, or environmental analysis. Internships and field work complement classroom learning. These opportunities can be found to help students gain practical experience in their field of interest.

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glen Fredlund</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Kansas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neal T. O'Reilly</td>
<td>Lecturer</td>
<td>PhD</td>
<td>Marquette University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Conservation and Environmental Science, Minor

Overview of United States environmental and natural resource law. Application of advanced principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.

Prerequisites: jr st, 300-level or above course in Conservation & Environmental Sciences; 2.5 GPA; cons supervising faculty member.

Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

Current Offerings: http://uwm.edu/schedule

CES 490 Senior Seminar: Conservation and Environmental Science

Course Rules: Counts as repeat of CES 499 with same topic.

Current Offerings: http://uwm.edu/schedule

CES 497 Study Abroad:

Course Rules: Counts as a repeat of CES 499 w/similar topic.

Last Taught: Spring 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CES 499 Ad Hoc:

Course Rules: Retakable w/chg in topic.

Last Taught: Spring 2016, Fall 2015, Fall 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

CES 515 Environmental Law for Natural Resource Managers

Prerequisites: jr st; CES 210(P) or cons instr.

Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

Current Offerings: http://uwm.edu/schedule

CES 550 Introduction to Science Interpretation

Prerequisites: jr st; CES 210(P) or cons instr.

Current Offerings: http://uwm.edu/schedule

CES 551 Application of Science Interpretation

Prerequisites: jr st; CES 550(P).

Last Taught: Spring 2006.
Current Offerings: http://uwm.edu/schedule

CES 571 Practical Approaches to a Sustainable Future

Course Rules: Counts as repeat of CES 499 w/similar topic.

Last Taught: Spring 2015, Spring 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

CES 576 Principles of Stream Management and Restoration

Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

Course Rules: Retakable w/chg in topic.

Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CES 699 Advanced Independent Study

Prerequisites: jr st or cons instr.

Course Rules: Retakable w/chg in topic to 9 cr max.

Current Offerings: http://uwm.edu/schedule
Requirements

The Conservation and Environmental Science minor requires completion of a minimum of 25 credits distributed among CES courses and approved electives, with at least 12 credits in upper-level (numbered 300 and above) courses. Students must complete at least 9 upper-level credits for the minor in residence at UWM and must attain a 2.500 GPA on all UWM credits attempted for the minor. In addition, the College requires that students attain a 2.500 GPA on all minor credits attempted, including transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 100 or GEOG 350</td>
<td>Introduction to the Earth or Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 105</td>
<td>General Chemistry for Engineering</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 102 or BIO SCI 150</td>
<td>Elements of Biology or Foundations of Biological Sciences I</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper-Level Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 471 or GEOG 350</td>
<td>Practicum in Natural Resources or Conservation of Natural Resources</td>
<td>3-4</td>
</tr>
<tr>
<td>Select at least 9 upper-level (numbered 300 or above) credits</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 25-27

1 Students pursuing BS degrees and those interested in taking upper-level natural science classes such as BIO SCI 310 should take CHEM 102 and BIO SCI 150 as part of their introductory core requirements.

2 Selected from the list of approved elective courses for the CES major, found here (p. 1158) or here (p. 1163). At least 6 of these must be taken outside the student’s major program and at least 3 must be from the natural sciences.

Contact Information

Current Students contact Mai Phillips, phillipm@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
</tbody>
</table>

Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

Quantitative Literacy

Part A

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
</tbody>
</table>

Or equivalent course

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

Select 3 credits

Humanities

Select 6 credits

Social Sciences

Select 6 credits

Natural Sciences

Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

   - MATH 102: Mathematical Literacy for College Students II
   - MATH 103: Contemporary Applications of Mathematics
   - MATH 105: Introduction to College Algebra
   - MATH 108: Algebraic Literacy II
   - MATH 175: Mathematical Explorations for Elementary Teachers I

   Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

   - AFRICOL 220: Introduction to Statistics in Africology
   - ANTHRO 568: Introduction to Anthropological Statistics
   - ATM SCI 500: Statistical Methods in Atmospheric Sciences
   - BIO SCI 465: Biostatistics
   - ECON 210: Economic Statistics
   - GEOG 247: Quantitative Analysis in Geography
   - HIST 595: The Quantitative Analysis of Historical Data
   - MTHSTAT 215: Elementary Statistical Analysis
   - PHILOS 211: Elementary Logic
   - POL SCI 390: Political Data Analysis
   - POL SCI 392: Survey Research
   - PSYCH 210: Psychological Statistics
   - SOCIOL 261: Introduction to Statistical Thinking in Sociology

   Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language).

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Completed in one of the following ways:

- Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.
- Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.
- Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Required Introductory Core

- BIO SCI 150 Foundations of Biological Sciences I 4
- BIO SCI 152 Foundations of Biological Sciences II 4
- CES 210 Introduction to Conservation and Environmental Science 3
- CHEM 102 General Chemistry 5
- GEO SCI 100 Introduction to the Earth 3
- or GEO SCI 120 Geology of the Planets 3
- GEO SCI 102 Principles of Historical Geology 3
- or GEO SCI 150 Introduction to Ocean Sciences 3
- GEOG 215 Introduction to Geographic Information Science 3

Mid-Level Distributional Requirement

- BIO SCI 310 General Ecology 4
- GEOG 350 Conservation of Natural Resources 3

Upper-Level Core

Select 18 upper-level approved CES electives with at least 3 credits taken from each of the following areas

- Biological Sciences
- Geosciences
- Geography

Research Requirement

- CES 471 Practicum in Natural Resources Management 4

Total Credits 54

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Conservation and Environmental Science

Major Requirements
For those students interested in the Water Track, please see the Bachelor of Science in Conservation and Environmental Science (p. 1163) major.

Coursework for the Major (Conservation and Natural Resources Track)
The Conservation and Natural Resources Track requires a minimum of 54 credits, 29 of which are advanced-level. All students in the Conservation and Natural Resources track must fulfill the required 36 credits (25 lower-level core credits, and 11 advanced-level credits) and an additional 18 advanced-level credits from among the approved Conservation and Natural Resources Track electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

List of Approved Electives in the Conservation and Natural Resources Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

ANTHRO 103 Digging Up the Past: Approaches to Archaeology 3
ANTHRO 355 Globalization, Culture, and Environment 3
Approved CES Course Electives Outside of the College of Letters and Science

Although the following courses may count as credits toward the CES major requirements, they do not count to satisfy the advanced L&S credits requirement for the degree. Consult the program coordinator before enrolling any of these courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 340</td>
<td>Urban Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 492</td>
<td>Environmental Impact Assessment</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 504</td>
<td>Quantitative Freshwater Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PH 375</td>
<td>Topics in Public Health for Undergrads:</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 591</td>
<td>Introduction to Urban Geographic Information Systems (GIS) in Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Potential Courses

Because of the interdisciplinary nature of the Conservation and Environmental Science Program, students are encouraged to work with the program coordinator to identify classes that will enable them best to gain the knowledge to achieve their goals. CES students can petition the Program to accept many classes beyond those listed above, if they are appropriate for the major and the individual student's program of study. For example, the following courses may apply:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 390</td>
<td>Special Topics:</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 699</td>
<td>Independent Work.</td>
<td>1-3</td>
</tr>
<tr>
<td>BIO SCI 497</td>
<td>Study Abroad.</td>
<td>1-12</td>
</tr>
<tr>
<td>BIO SCI 599</td>
<td>Special Topics in Biological Sciences:</td>
<td>1-3</td>
</tr>
<tr>
<td>BIO SCI 699</td>
<td>Independent Study.</td>
<td>1-3</td>
</tr>
<tr>
<td>FRSHWTR 690</td>
<td>Undergraduate Seminar in Freshwater Sciences:</td>
<td>1-3</td>
</tr>
<tr>
<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>1-6</td>
</tr>
<tr>
<td>GEOG 699</td>
<td>Independent Work.</td>
<td>1-3</td>
</tr>
<tr>
<td>GEO SCI 699</td>
<td>Advanced Independent Reading</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Declaration of Major

Students wishing to declare the major can obtain the necessary information and materials from the Biological Sciences Office (Lapham Hall, Room 181) or the CES Program Coordinator's office (Lapham Hall, Room 393) or from their College of Letters and Science advisor.

In order to be accepted into the CES program, students should be in their sophomore year and have completed:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 120</td>
<td>Our Physical Environment</td>
<td></td>
</tr>
</tbody>
</table>

In addition to course work in the major, good communication skills are essential; students should take courses in public speaking and technical writing. Computer literacy and knowledge of statistics also are highly desirable. Additionally, introductory courses in economics, ethics, political science, and sociology are recommended. The coordinator or a Letters and Science advisor can provide a current list of recommended courses.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmillwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable
semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**
Current Students contact Mai Phillips, phillipm@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/conservation-environmental-science/undergraduate/

**Conservation and Environmental Sciences, BS**
At UWM, students with a passion for nature and the environment can obtain a solid education in the natural sciences that are central to environmental science - biology, geosciences, and chemistry - and the social sciences of geography, economics, and politics which guide the application of conservation and environmental science in the real world.

Students at UWM can focus their conservation and environmental science work around land resources, water resources, biological resources/biodiversity, or environmental analysis. Internships and field work complement classroom learning. These opportunities can be found locally at UWM’s own Field Station (http://uwm.edu/letters-science/programs/?discipline=Field+Station), on Lake Michigan aboard UWM’s R/V Neeskay vessel, and at local agencies, or abroad in places as far flung as Iceland, Africa, Romania and the Caribbean.

An active Conservation Club is another student advantage at UWM. Activities range from on-campus sustainability projects to professional networking and more.

UWM’s CES major builds on students’ passion to solve environmental issues through either a BS or a BA degree. The BS requires more courses in math, biology, chemistry, and science and is suitable for careers in field or laboratory work, while the BA has fewer electives in science for a career in public programming, education, or administration.

Because of the breadth and flexibility of this major, students should consult with the Director and/or Coordinator to plan a course of study, preferably before the start of their sophomore year. It is particularly important to begin the introductory course sequences early, since they are prerequisites for advanced courses.

It is recommended that students obtain at least one semester of practical work or internship experience, either as an employee or as a volunteer, with state or federal resource management agencies, consulting firms, conservation or environmental organizations, or with nature centers or local parks.

**Requirements**

**Course of Study – Bachelor of Science Degree**
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
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<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
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<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

**College of Letters & Science Requirements**

**I. English Writing Requirement**
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).
I. Introduction

The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required. Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

VI. The Major

The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires
that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement.
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Conservation and Environmental Science Major Requirements**

Conservation and Environmental Sciences offers two undergraduate tracks with separate sets of required classes: Conservation and Natural Resources and Water Resources.

The Conservation and Natural Resources Track is the broader of the two tracks, and gives students the widest range of options. Areas of emphasis, or focus areas, within this track include Land Resources, Conservation Biology, GIS Application, Natural Resource Policy, and Environmental Interpretation.

The Water Resources Track provides students with knowledge and skills critical for futures relating to water resources. Within this track, students may choose to focus on Environmental Chemistry and Toxicology, Surface and Groundwater Hydrology, or Aquatic Ecology and Limnology. Completion of this track will prepare students for graduate studies in water resources.

**Coursework for the Major (Conservation and Natural Resources Track)**

The Conservation and Natural Resources Track requires a minimum of 54 credits, 29 of which are advanced-level. All students in the Conservation and Natural Resources track must fulfill the required 36 credits (25 lower-level core credits, and 11 advanced-level credits) and an additional 18 advanced-level credits from among the approved Conservation and Natural Resources Track electives.

**Research Requirement**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
<td>4</td>
</tr>
</tbody>
</table>

**List of Credits**

Total Credits 54

**List of Approved Electives in the Conservation and Natural Resources Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 103</td>
<td>Digging Up the Past: Approaches to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 448</td>
<td>Cultural and Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 100</td>
<td>Survey of Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 240</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 330</td>
<td>Air-Pollution Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 289</td>
<td>Internship in Biological Sciences, Lower Division</td>
<td>1-6</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 358</td>
<td>Birds of Wisconsin</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 370</td>
<td>Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 406</td>
<td>Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 407</td>
<td>Plant Systematics and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 430</td>
<td>Animal Behavior-Ethology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 451</td>
<td>Field Methods in Conservation</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 458</td>
<td>Community Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 475</td>
<td>Tropical Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 480</td>
<td>Ecological Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 489</td>
<td>Internship in Biological Sciences, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td>BIO SCI 500</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 505</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 507</td>
<td>Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 511</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 512</td>
<td>Limnology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 523</td>
<td>Evolution and Ecology of Birds</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 562</td>
<td>Topics in Field Biology</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO SCI 611</td>
<td>Seminar on Recent Advances in Limnology and Oceanography, Seminar on Recent Advances in Limnology and Oceanography</td>
<td>2</td>
</tr>
<tr>
<td>CES 289</td>
<td>Internship in Environmental Studies, Lower Division</td>
<td>1-6</td>
</tr>
<tr>
<td>CES 451</td>
<td>Field Methods in Conservation</td>
<td>3</td>
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<tr>
<td>CES 461</td>
<td>The Politics and Policy of Sustainability</td>
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<tr>
<td>CES 489</td>
<td>Internship in Environmental Studies, Upper Division</td>
<td>1-6</td>
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<tr>
<td>CES 497</td>
<td>Study Abroad:</td>
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<tr>
<td>CES 499</td>
<td>Ad Hoc</td>
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</table>
Coursework for the Major (Water Resources Track)

The Water Resources Track requires a minimum of 61 credits, 29 of which are advanced-level. All students in the Water Resources Track must fulfill the required 43 credits (32 lower-level core credits, and 11 advanced-level credits) and an additional 18 advanced-level credits from among the approved Water Resources Track electives.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>CES 550</td>
<td>Introduction to Science Interpretation</td>
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<tr>
<td>CES 551</td>
<td>Application of Science Interpretation</td>
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<tr>
<td>CES 571</td>
<td>Practical Approaches to a Sustainable Future</td>
<td>3</td>
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<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
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<tr>
<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Introductory Organic Chemistry Laboratory</td>
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<td>CHEM 343</td>
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<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
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<td>CHEM 345</td>
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<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
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<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
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<td>CHEM 560</td>
<td>Biophysical Chemistry</td>
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<td>CHEM 603</td>
<td>Introduction to Biochemistry Laboratory</td>
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<tr>
<td>ECON 328</td>
<td>Environmental Economics</td>
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<tr>
<td>ECON 525</td>
<td>The Economics of Water</td>
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<tr>
<td>BIO SCI 611</td>
<td>Conservation of Natural Resources</td>
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<tr>
<td>BIO SCI 540</td>
<td>Limnology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 512</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
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<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
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<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
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<tr>
<td>GEOG 304</td>
<td>Human Impact on the Environment</td>
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<tr>
<td>GEOG 306</td>
<td>Natural Hazards</td>
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<td>GEOG 310</td>
<td>General Climatology</td>
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<tr>
<td>GEOG 340</td>
<td>Biogeography</td>
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<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
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<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
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<td>GEOG 405</td>
<td>Cartography</td>
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<td>GEOG 411</td>
<td>Physical Climatology</td>
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<td>GEOG 415</td>
<td>Hydrogeography</td>
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<td>GEOG 420</td>
<td>Methods and Principles in Land Form Geography</td>
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<td>GEOG 424</td>
<td>Karst Geomorphology</td>
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<td>GEOG 450</td>
<td>Climates of the Past and Climate Change</td>
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<td>GEOG 455</td>
<td>Applied Climatology</td>
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<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
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<td>GEOG 475</td>
<td>Geography of Soils</td>
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<tr>
<td>GEOG 515</td>
<td>Watershed Analysis and Modeling</td>
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<td>GEOG 520</td>
<td>Physical Geography of the City</td>
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<td>GEOG 525</td>
<td>Geographic Information Science</td>
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<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td>4</td>
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<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
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<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
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<tr>
<td>GEO SCI 301</td>
<td>Principles of Mineralogy</td>
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<td>GEO SCI 400</td>
<td>Water Quality</td>
<td>3</td>
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<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
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<tr>
<td>GEO SCI 443</td>
<td>Glacial and Pleistocene Geology</td>
<td>3</td>
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<tr>
<td>GEO SCI 463</td>
<td>Physical Hydrogeology</td>
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<tr>
<td>GEO SCI 464</td>
<td>Chemical Hydrogeology</td>
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<td>GEO SCI 562</td>
<td>Environmental Surface Hydrology</td>
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<tr>
<td>GEO SCI 563</td>
<td>Field Methods in Hydrogeology</td>
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<tr>
<td>GEO SCI 697</td>
<td>Seminar in the Geological Sciences: 1-3</td>
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<tr>
<td>HIST 432</td>
<td>North American Environmental History</td>
<td>3</td>
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<tr>
<td>JAMS 503</td>
<td>Environment and the Media</td>
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<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
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<tr>
<td>SOCIOL 450</td>
<td>Environmental Sociology</td>
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Coursework for the Major (Water Resources Track)

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<tbody>
<tr>
<td>BIOSCI 150</td>
<td>Foundations of Biological Sciences I</td>
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<tr>
<td>BIOSCI 152</td>
<td>Foundations of Biological Sciences II</td>
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</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
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<tr>
<td>GEO SCI 120</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
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<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
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<tr>
<td>PHYSICS 121</td>
<td>General Physics Laboratory I (Non-Calculus Treatment)</td>
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<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4</td>
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<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
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<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
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Total Credits

61

Water Resources Electives

<table>
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<tr>
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<tbody>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
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</tr>
<tr>
<td>BIOSCI 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOSCI 406</td>
<td>Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOSCI 465</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>BIOSCI 500</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOSCI 511</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>BIOSCI 512</td>
<td>Limnology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOSCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOSCI 611</td>
<td>Seminar on Recent Advances in Limnology and Oceanography</td>
<td>2</td>
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</table>
Approved CES Course Electives For Both Tracks Outside of the College of Letters and Science

Note: Although the following courses may count as credits toward the CES major requirements, they do not count to satisfy the advanced L&S credits requirement for the degree. Consult the Coordinator before enrolling in any of these courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 100 or GEO SCI 120</td>
<td>Introduction to the Earth or Our Physical Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to course work in the major, good communication skills are essential; students should take courses in public speaking and technical writing. Computer literacy and knowledge of statistics also are highly desirable. Additionally, introductory courses in economics, ethics, political science, and sociology are recommended. The coordinator or a Letters and Science advisor can provide a current list of recommended courses.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available.

Declaration of Major

Students wishing to declare the major can obtain the necessary information and materials from the Biological Sciences Office (Lapham Hall, Room 181) or the CES Program Coordinator's office (Lapham Hall, Room 393) or from their College of Letters and Science advisor.

In order to be accepted into the CES program, students should be in their sophomore year and have completed:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
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<td>Introduction to Conservation and Environmental Science</td>
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<tr>
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<td>Foundations of Biological Sciences I</td>
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<td>GEO SCI 100 or GEO SCI 120</td>
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Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available.
for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmiwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the College of Letters and Science**

**Dean’s Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**
Current Students contact Mai Phillips, phillipm@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/conservation-environmental-science/undergraduate/
COURSES APPROVED FOR THE L&S INTERNATIONAL REQUIREMENT

Note: All Study Abroad classes count towards the International requirement, and all third- and fourth-semester foreign language courses offered through the College of Letters & Science count towards the international requirement. Where a course topic appears (in parentheses), only that particular topic can be applied to the International requirement.

Coding Key

HU May also satisfy Humanities (HU) General Education Requirement.
NS May also satisfy the Natural Sciences (NS) General Education Requirement.
NS + May also satisfy the Natural Sciences Lab (NS+) General Education Requirement.
SS May also satisfy the Social Sciences (SS) General Education Requirement.
OWCB May also satisfy the Oral and Written Communication Part B (OWCB) General Education Requirement.
QLB May also satisfy the Quantitative Literacy Part B (QLB) General Education Requirement.

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<td>Survey of African Societies and Cultures SS</td>
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<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
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<td>AFRICOL 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
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<td>AFRICOL 352</td>
<td>Extended Families in Black Societies</td>
<td>3</td>
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<tr>
<td>AFRICOL 417</td>
<td>Race, Class and Gender in Southern Africa</td>
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<tr>
<td>AFRICOL 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
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<td>AIS 362</td>
<td>System Failure: Globalization and Language Extinction</td>
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<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies SS</td>
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<tr>
<td>ANTHRO 307</td>
<td>World Archaeology: Foundations of Civilization</td>
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<td>ANTHRO 320</td>
<td>Peoples and Cultures of Africa</td>
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<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
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<td>ANTHRO 328</td>
<td>Comparative Studies of Music, Race, and Gender in Nationalism</td>
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<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment SS</td>
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<td>ANTHRO 362</td>
<td>System Failure: Globalization and Language Extinction</td>
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<td>ANTHRO 439</td>
<td>Culture and Global Health</td>
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<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
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<td>ANTHRO 442</td>
<td>Humanitarianism in Global Perspective</td>
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<td>Medicine and Pharmaceuticals in the Global Age</td>
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<td>The Global Politics of Human Rights</td>
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<td>ARABIC 111</td>
<td>Cultures and Civilizations of the Muslim Middle East HU</td>
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<td>Ancient and Medieval Art and Architecture HU</td>
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<td>ARTHIST 102</td>
<td>History to Modern Art and Architecture HU</td>
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<td>History of Architecture HU</td>
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<td>African, New World and Oceanic Art and Architecture HU</td>
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<td>Asian Art and Architecture HU</td>
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<td>History of Film I: Development of an Art HU</td>
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<td>ARTHIST 206</td>
<td>History of Film II: Development of an Art HU</td>
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<td>ARTHIST 237</td>
<td>Northern Renaissance Art</td>
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<td>ARTHIST 251</td>
<td>Introduction to the Art and Architecture of Latin America</td>
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<td>ARTHIST 261</td>
<td>Modern Art HU</td>
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<td>ARTHIST 270</td>
<td>Pre-Columbian Art, Myth, and Legacy</td>
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<td>ARTHIST 327</td>
<td>Caliphs, Emirs, &amp; Kings: Art &amp; Architecture of Medieval Spain</td>
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<td>ARTHIST 329</td>
<td>Late Medieval Art and Architecture</td>
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<td>High Renaissance Art in Italy</td>
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<td>ARTHIST 358</td>
<td>Modern Painting I: 1850-1900 HU</td>
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<td>ARTHIST 359</td>
<td>Modern Architecture I: The European Foundations of Modern Architecture</td>
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<tr>
<td>ARTHIST 360</td>
<td>Modern Architecture II: The Rise of Modern Architecture</td>
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<td>ARTHIST 361</td>
<td>Modern Architecture III: Contemporary Architecture</td>
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<td>ARTHIST 363</td>
<td>Modern Sculpture: 1880-1945</td>
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<td>ARTHIST 364</td>
<td>Modern Painting II: 1900 to the Present</td>
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<td>German Painting, 1800-1933</td>
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<td>Latin American Modernisms</td>
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<td>ARTHIST 368</td>
<td>History of Modern Design</td>
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<td>ARTHIST 369</td>
<td>Introduction to Contemporary Art</td>
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<td>African Art</td>
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<td>Art of the Inca and their Ancestors</td>
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<td>ARTHIST 373</td>
<td>Art of Ancient Mexico and Central America</td>
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<td>Modern and Contemporary France</td>
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<td>Honors Seminar: (Enlightenment Voyages)</td>
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<td>Honors Seminar: (Gender, Religion and Sexuality in World History)</td>
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<td>Topics in Latin American and Caribbean History</td>
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**Honors**

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<td>Honors Seminar: The Shaping of the Modern Mind: (The Idea of Progress in Modern European History)</td>
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<td>Honors Seminar: The Shaping of the Modern Mind: (Europe in the 19th Century)</td>
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<td>Honors Seminar in the Humanities: (Sacred Asia)</td>
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<td>HONORS 351</td>
<td>University Honors Seminar in the Social Sciences: (Liberty, Equality, Fraternity, and Terror: Revolutionary France, 1789-1799)</td>
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**International Studies**

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<td>INTLST 550</td>
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**Italian**

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<td>Italian Language and Culture for Professional Communication</td>
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<td>First-Year Seminar: (Finding the Italian in You — Italian Folklore in Fiction and Film)</td>
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<td>Italian Fictions</td>
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<td>Contemporary Italian Society and Culture</td>
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<td>Dante's Divine Comedy in Translation</td>
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**Journalism, Advertising, and Media Studies**

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<td>JAMS 659</td>
<td>Seminar in Comparative Media Law</td>
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**Japanese**

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<td>Japanese Culture and Its Effect on Language</td>
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<td>JAPAN 220</td>
<td>Introduction to Japanese Food Studies</td>
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**Jewish Studies**

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<td>JEWISH 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
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<td>Polish Culture in its Historical Setting HU</td>
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<td>Survey of Polish Literature-in-Translation: 1863 to the Present HU</td>
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<td>Politics of the World's Nations SS</td>
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<td>Western European Politics</td>
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<td>British Politics</td>
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<td>Russian and Post-Soviet Politics</td>
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<td>International Organization and the United Nations</td>
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<td>European Integration</td>
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<td>Politics and Markets in Pacific-Rim Countries:</td>
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<td>Asian International Relations</td>
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<td>History of International Political Thought</td>
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<td>Theories and Methods in International Politics</td>
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<td>Nationalism and Ethnic Conflict SS</td>
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<td>Health, Wealth, and Democracy</td>
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<td>Russian and Slavic Folklore</td>
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<td>Survey of Nineteenth-Century Russian Literature in Translation</td>
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<td>Russian Life and Culture</td>
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<td>Dostoevsky and Tolstoy in Translation: Major Works HU</td>
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<td>Population and Society</td>
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<td>Introduction to Galician Culture HU</td>
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<td>Comparative Systems for Translation</td>
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<td>Urban Growth and Development: A Global View</td>
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<td>WGS 401</td>
<td>Global Feminisms</td>
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# Courses Approved for the L&S Research Requirement

## Coding Key

- **HU**: Also applies towards Humanities (HU) General Education Requirement.
- **NS**: Also applies towards the Natural Sciences (NS) General Education Requirement.
- **NS+**: Also applies towards the Natural Sciences Lab (NS+) General Education Requirement.
- **SS**: Also applies towards Social Sciences (SS) General Education Requirement.
- **OWCB**: Also applies towards the Oral and Written Communication Part B (OWCB) General Education Requirement.
- **QLB**: Also applies towards the Quantitative Literacy Part B (QLB) General Education Requirement.

## Actuarial Science

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<td>MATH 599</td>
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## Africology

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<td>AFRICOL 300</td>
<td>Urban Violence</td>
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<td>AFRICOL 319</td>
<td>African American Urban History</td>
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<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
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<td>AFRICOL 321</td>
<td>Black Workers in the 21st Century</td>
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<td>AFRICOL 326</td>
<td>Economic Problems of Black Business</td>
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<td>AFRICOL 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
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<td>AFRICOL 341</td>
<td>Black Politics and City Government</td>
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<td>Global Black Social Movements</td>
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<td>Extended Families in Black Societies</td>
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<td>AFRICOL 372</td>
<td>African-American Literary Movements: The Harlem Renaissance</td>
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<td>AFRICOL 414</td>
<td>The Black Woman in America, Africa, and the Caribbean</td>
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<td>Independent Study</td>
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## American Indian Studies

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<td>Field Project - Capstone Research or Applied Project</td>
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## Anthropology

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<td>Primates Populations</td>
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<td>ANTHRO 497</td>
<td>Study Abroad:</td>
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<td>ANTHRO 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains</td>
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## Art History

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<td>Colloquium in Method and Theory.</td>
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## Atmospheric Sciences

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## Biological Sciences

### Standard option

- **BIO SCI 611**: Seminar on Recent Advances in Limnology and Oceanography: 2
- **BIO SCI 670**: Senior Seminar in Biological Sciences: 1
- **BIO SCI 671**: Undergraduate Seminar in Microbiology: 1
- **BIO SCI 672**: Undergraduate Seminar in Cell and Molecular Biology: 1
- **BIO SCI 697**: Independent Study in Cell and Molecular Biology: 1-3
- **BIO SCI 698**: Independent Study in Microbiology: 1-3
- **BIO SCI 699**: Independent Study: 1-3

### Double major with CES

- **CES 471**: Practicum in Natural Resources Management: 4

## Microbiology

- **BIO SCI 495**: Internship in Biotechnology, Upper Division: 3-6
- **BIO SCI 671**: Undergraduate Seminar in Microbiology: 1
- **BIO SCI 698**: Independent Study in Microbiology: 1-3
- **BIO SCI 699**: Independent Study: 1-3

## Chemistry and Biochemistry

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<td>Senior Research</td>
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## Chinese

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## Classics

### Classical Civilization

- Any Classic, Greek, or Latin course at 300-level or above

### Greek Concentration

- Complete research in the context of any Classic, Greek, or Latin course at 400-level or above
- Latin Concentration
Complete research in the context of any Classic, Greek, or Latin course at 300-level or above.

**Communication**

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<td>Critical Analysis of Communication</td>
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<td>COMMUN 370</td>
<td>Quantitative Research in Communication</td>
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<td>COMMUN 372</td>
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**Comparative Ethnic Studies**

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**Comparative Literature**

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<td>Literary Criticism: Major Authors</td>
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<td>COMPLIT 464</td>
<td>Seminar in Comparative Literary Criticism: OWCB</td>
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**Conservation and Environmental Science**

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**Economics**

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**English**

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**Literature and Language Studies**

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**Literary and Critical Studies**

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**Media, Cinema, and Digital Studies**

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**Rhetoric and Writing**

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### COURSES APPROVED FOR THE L&S BREADTH REQUIREMENT

#### Coding Key

- **HU**: Also applies towards Humanities (HU) General Education Requirement.
- **NS**: Also applies towards the Natural Sciences (NS) General Education Requirement.
- **NS+**: Also applies towards the Natural Sciences Lab (NS+) General Education Requirement.
- **SS**: Also applies towards Social Sciences (SS) General Education Requirement.
- **OWCB**: Also applies towards the Oral and Written Communication Part B (OWCB) General Education Requirement.
- **QLB**: Also applies towards the Quantitative Literacy Part B (QLB) General Education Requirement.

### Africology

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### Social Science

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**American Indian Studies (AIS)**

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<td>Zooarchaeology: Analysis of Faunal Remains</td>
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#### Natural Science

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BIO SCI 556 Developmental Neurobiology 3-4
BIO SCI 564 Endocrinology 3
BIO SCI 565 Eukaryotic Gene Regulation 3
BIO SCI 572 Functional Genomics 3
BIO SCI 573 Cellular Evolution 3
BIO SCI 575 Evolutionary Biology 3
BIO SCI 596 Neopharmacology 3
BIO SCI 597 RNA Structure, Function, and Metabolism 3
BIO SCI 599 Special Topics in Biological Sciences: 1-3
BIO SCI 611 Seminar on Recent Advances in Limnology and Oceanography: 2
BIO SCI 670 Senior Seminar in Biological Sciences 1
BIO SCI 671 Undergraduate Seminar in Microbiology 1
BIO SCI 100 Survey of Zoology NS+ 3
BIO SCI 101 General Survey of Microbiology NS+ 4
BIO SCI 102 Elements of Biology NS+ 3
BIO SCI 104 Plants in Today's World NS+ 3
BIO SCI 150 Foundations of Biological Sciences I NS+ 4
BIO SCI 152 Foundations of Biological Sciences II NS+ 4
BIO SCI 201 Human Structure and Function NS+ 3
BIO SCI 202 Anatomy and Physiology I 4
BIO SCI 203 Anatomy and Physiology II NS+ 4
BIO SCI 310 General Ecology 4
BIO SCI 316 Laboratory in Genetics and Cell Biology 2
BIO SCI 350 Human Parasitology 4
BIO SCI 358 Birds of Wisconsin 2
BIO SCI 372 Animal Physiology and Neurobiology Laboratory 1
BIO SCI 383 General Microbiology 4
BIO SCI 402 Immunological Techniques 3
BIO SCI 407 Plant Systematics and Evolution 3
BIO SCI 475 Tropical Biology 3
BIO SCI 501 Plant and Aquatic Ecophysiology Laboratory 3
BIO SCI 511 Ichthyology 3
BIO SCI 539 Laboratory Techniques in Molecular Biology 4
BIO SCI 543 Scanning Electron Microscopy Laboratory 2
BIO SCI 544 Transmission Electron Microscopy Laboratory 3
BIO SCI 562 Topics in Field Biology: 1-2
BIO SCI 580 Experimental Microbiology 4

Celtic Studies

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**Chinese**

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<td>A Taste of China: Learning Chinese Culture and Society through Cuisine HU</td>
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<td>CHINESE 200</td>
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<td>Contemporary Chinese Societies through Film</td>
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**Classics**

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## University of Wisconsin-Milwaukee

### ENGLISH 515
- **Title:** Literature and the Other Arts:  
- **Credits:** 3

### ENGLISH 517
- **Title:** Studies in African-American Literature:  
- **Credits:** 3

### ENGLISH 518
- **Title:** Studies in Irish Literature:  
- **Credits:** 3

### ENGLISH 520
- **Title:** Studies in American Indian Literature:  
- **Credits:** 3

### ENGLISH 521
- **Title:** Studies in Ethnic Minority Literature:  
- **Credits:** 3

### ENGLISH 522
- **Title:** Studies in World Literature Written in English:  
- **Credits:** 3

### ENGLISH 523
- **Title:** Studies in U.S. Latino/a Literature:  
- **Credits:** 3

### ENGLISH 524
- **Title:** Studies in Asian-American Literature:  
- **Credits:** 3

### ENGLISH 526
- **Title:** Studies in Shakespeare:  
- **Credits:** 3

### ENGLISH 545
- **Title:** Studies in the History of Literary Criticism:  
- **Credits:** 3

### ENGLISH 547
- **Title:** Studies in Theory and Criticism:  
- **Credits:** 3

### ENGLISH 621
- **Title:** Seminar in the Literature of England:  
- **Credits:** 3

### ENGLISH 623
- **Title:** Seminar in American Literature:  
- **Credits:** 3

### ENGLISH 627
- **Title:** Seminar in Literature and Culture:  
- **Credits:** 3

### ENGLISH 630
- **Title:** Seminar in Literature and the Other Arts:  
- **Credits:** 3

### ENGLISH 685
- **Title:** Honors Seminar:  
- **Credits:** 3

### Ethnic Studies

#### Humanities

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<td>Indians, Artists, and Conquistadores: The U.S. Southwest</td>
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<td>Migration and Gender: Starbucks, Sex Trafficking, and Nannies</td>
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### Film Studies

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### Food Studies

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### Foreign Languages and Literature

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### French

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<td>Reading French Texts</td>
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**Courses Approved for the L&S Breadth Requirement**

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<td>Topics in French and Francophone Studies in Translation:</td>
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**Geography**

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### Natural Science Labs

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## Courses Approved for the L&S Breadth Requirement

### Hebrew Studies

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### Honors College

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### Journalism, Advertising, and Media Studies

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### Lesbian, Gay, Bisexual, and Transgender Studies (LGBT)

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<td>Fundamentals of Linguistic Analysis</td>
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**Peace Studies**

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**Philosophy**

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### Translation

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### Urban Studies

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<td>Perspectives on the Urban Scene: SS</td>
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<td>Urbanism and Urbanization</td>
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<td>URB STD 450</td>
<td>Urban Growth and Development: A Global View</td>
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<td>URB STD 625</td>
<td>Law and Urban Poverty</td>
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<td>URB STD 639</td>
<td>Health Care and Public Policy in the United States</td>
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### Women's and Gender Studies

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<td>WGS 201</td>
<td>Introduction to Women's and Gender Studies: A Humanities Perspective HU</td>
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<td>WGS 301</td>
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<td>Feminist Theory</td>
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<td>Advanced Humanities Seminar in Women's and Gender Studies:</td>
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<td>WGS 535</td>
<td>Philosophical Topics in Feminist Theory</td>
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<td>WGS 200</td>
<td>Introduction to Women's and Gender Studies: A Social Science Perspective SS</td>
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<td>Global Feminisms</td>
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<td>WGS 411</td>
<td>Women's and Gender Studies Research Methods:</td>
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<td>Advanced Social Science Seminar in Women's and Gender Studies:</td>
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CULTURES AND COMMUNITIES, UNDERGRADUATE CERTIFICATE

One of the most exciting things about college is the opportunity to meet and work with people from so many different backgrounds and walks of life. Cultures and Communities operates around the premise that learning to work across differences of cultural background and experience is a process essential to intellectual growth and lifelong learning, and ultimately to building a better world. The Cultures and Communities (CC) undergraduate certificate program promotes such experiences through its unique array of interdisciplinary classes, collaborative projects, and community-based learning.

The Certificate provides students with a thorough understanding of the social construction of cultural identities and their relationship to history, society, politics, and economics. Students explore the multicultural construction of America and examine the community and culture of art, sexuality, gender, race, health, ethics, religion, and technology. The certificate is valuable and applicable in any career that involves working with people - which is almost everything.

As part of the requirements for the certificate, students complete a service learning component where they work in the community, tying their classroom learning to real world experiences. And, because so many of these classes also count as general education requirements, many students find it quite seamless to add the certificate into their education plan.

Eligibility

The Cultures and Communities Certificate is open to all degree-seeking undergraduates at UWM to complement the student’s major. All students are required to complete an exit survey before the certificate is awarded.

Requirements

Students must complete at least 3 credits in each of the areas below, including one course with a service learning component. All students are required to complete an exit survey before the certificate is awarded.

The following list of courses approved for the CC certificate indicates which requirement of the certificate is fulfilled by each course and how each course counts toward the University General Education Requirements. L&S students who wish to have their CC courses count toward their Letters and Science breadth requirements must select L&S courses. A single course may satisfy only one area. For the most up-to-date list, contact the Cultures and Communities Program office.

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<td>Black Reality: Survey of African-American Society (HU/CD)</td>
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<td>AFRICOL 102</td>
<td>Survey of African-American Literature (HU/CD)</td>
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<td>AFRICOL 111</td>
<td>Introduction to African-American History to 1865 (HU/CD)</td>
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<td>AFRICOL 112</td>
<td>Introduction to African-American History, 1865 to the Present (HU/CD)</td>
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<tr>
<td>AFRICOL 125</td>
<td>Economics of the Black Community (SS/CD)</td>
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<td>AFRICOL 192</td>
<td>First-Year Seminar: (African American Life Stories) (HU)</td>
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<td>First-Year Seminar: (Race in Popular Culture) (SS)</td>
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<tr>
<td>AFRICOL 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers (HU/CD) (if not selected in Area III)</td>
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<tr>
<td>AFRICOL 210</td>
<td>The African-American Novel (HU/CD)</td>
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<td>AFRICOL 215</td>
<td>Introduction to Black Social and Cultural Traditions (SS)</td>
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<td>Introduction to Black Political Economy (SS)</td>
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<td>Black Women and White Women in the Contemporary United States (SS)</td>
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<td>Psychological Effects of Racism (SS/CD)</td>
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<td>AFRICOL 314</td>
<td>The School in African-American Life (HU/CD)</td>
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<td>AIS 101</td>
<td>Introduction to American Indian Studies (SS/CD)</td>
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<td>AIS 105</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Culture (CD)</td>
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Select 3 credits

Area I. Cultures and Communities Core

Select 3 credits

Area II. Cultures and Communities of the United States

Select 3 credits

Area III. Global Perspectives on Culture and Community

Select 3 credits

Area IV. Art, Culture, and Community

Select 3 credits
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<td>First-Semester Anishinaabemowin (Ojibwe) (CD)</td>
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<td>First-Year Seminar: (SS)</td>
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<td>Western Great Lakes American Indian Community Life of the Past (SS/CD)</td>
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<td>AIS 251</td>
<td>Third Semester Anishinaabemowin (Ojibwe) (CD)</td>
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<td>North American Indian History Since 1887 (SS/CD)</td>
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<td>Introduction to American Indian Literature: (HU/CD)</td>
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<td>Arabs and Islam in America (HU)</td>
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<td>The Milwaukee Community (SS)</td>
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<td>Educational Issues in Spanish Speaking Communities (HU/CD)</td>
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<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity (HU/CD)</td>
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<td>Racial Minorities in the United States (SS/CD)</td>
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<td>Hmong Americans: History, Culture, and Contemporary Life (SS/CD)</td>
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<td>Gender, Race, and Ethnicity in Milwaukee: (HU/CD)</td>
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<td>Deaf History (SS)</td>
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<td>American Deaf Culture (SS)</td>
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<td>Intermediate Topics in Film Studies: (HU)</td>
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<td>Geography of Race in the United States (SS/CD)</td>
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<td>Studies in Hebrew Culture: (HU)</td>
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<td>Multicultural America (HU/CD) (if not selected above)</td>
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<td>Historical Roots of Contemporary Issues: (SS)</td>
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<td>History of Race, Science, and Medicine in the United States (HU/CD) (if not selected in Area V)</td>
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<td>The History of Latinos in the United States (HU/CD)</td>
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<td>HIST 269</td>
<td>Asian Americans in Historical Perspective (HU/CD)</td>
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<td>Topics in American History: (Topic: Mixed Race Identity in American Culture (HU/CD)</td>
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<td>The 1960s in the United States: A Cultural History (HU)</td>
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<td>African Americans from Slavery to Freedom (CD)</td>
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<td>African Americans Since the Civil War (CD)</td>
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<td>American Indian History, Law, and Government (CD)</td>
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<td>HMONG/ETHNIC 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life (SS/CD)</td>
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<td>Honors Seminar: The Shaping of the Modern Mind:</td>
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<td>Honors Seminar in the Humanities: (HU) (Civil Rights and the Freedom Struggle)</td>
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<td>Topics in Italian American Studies: (HU)</td>
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<td>Jewish Culture in America: History, Literature, Film (HU)</td>
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<td>Gender and the Media (HU)</td>
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<td>Jewish and Ethnic Narratives and Identities in Media (HU)</td>
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<td>Special Topics in Latin American, Caribbean, and U.S. Latin@ Studies: (Chican@/Latin@ Art and Culture: Politics and Resistance)</td>
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<td>Latin American, Caribbean, and U.S. Latin@ Arts and Culture: (HU) (Chican@/Latin@ Art and Culture: Politics and Resistance)</td>
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<td>LGTB 200</td>
<td>Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (HU)</td>
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<tr>
<td>LGTB/ETHNIC 275</td>
<td>Queer Migrations (HU/CD)</td>
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<tr>
<td>POL SCI 150</td>
<td>Multicultural America: Minority Voting Rights and Representation (CD) (if not selected above)</td>
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<tr>
<td>POL SCI 215</td>
<td>Ethnicity, Religion and Race in American Politics (SS/CD)</td>
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<td>PSYCH 230</td>
<td>Social Psychology: Psychological Perspectives (SS)</td>
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<td>PSYCH 319</td>
<td>Gay and Lesbian Psychology (SS)</td>
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<td>PSYCH 320</td>
<td>Psychology of Women</td>
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<td>RELIGST 106</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)</td>
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<td>RELIGST 350</td>
<td>Advanced Topics in Religious Studies: (Religion in Daily Life – Food, Drink, and Clothing)</td>
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<td>SOC WRK 300</td>
<td>Aged to Perfection: Introduction to the Study of Aging (OWCB/SS)</td>
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<td>SOC WRK 665</td>
<td>Cultural Diversity and Social Work (SS/CD)</td>
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<td>SOCIOL 150</td>
<td>Multicultural America (SS/CD) (if not selected above)</td>
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<td>SOCIOL 193</td>
<td>First-Year Seminar: (SS)</td>
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<tr>
<td>SOCIOL 224</td>
<td>American Minority Groups (SS/CD)</td>
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<td>SOCIOL 233</td>
<td>Social Inequality in the United States (SS)</td>
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<tr>
<td>SOCIOL 250</td>
<td>Sex and Gender (SS)</td>
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<tr>
<td>SOCIOL/AIDS 320</td>
<td>Social Change in American Indian Societies (SS/CD)</td>
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<tr>
<td>SOCIOL/AIDS 321</td>
<td>Contemporary Issues of the American Indian (SS/CD)</td>
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<tr>
<td>SOCIOL 323</td>
<td>Perspectives on Latino Communities (SS/CD)</td>
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<tr>
<td>SPANISH 371</td>
<td>Introduction to Latino Literature in English (HU/CD)</td>
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<td>SPANISH 373</td>
<td>Topics in Latino Literature in English: (HU/CD)</td>
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<tr>
<td>THERREC 202</td>
<td>Disability: Society and the Person (SS)</td>
<td>3</td>
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<tr>
<td>URBPLAN 140</td>
<td>Issues in Contemporary Urban Planning (SS)</td>
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<td>URBPLAN 350</td>
<td>Social Justice, Urban Planning and the New Multicultural America (CD)</td>
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<td>Multicultural America (SS/CD) (if not selected above)</td>
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<td>SOCIOL 224</td>
<td>American Minority Groups (SS/CD)</td>
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<td>SOCIOL 233</td>
<td>Social Inequality in the United States (SS)</td>
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<td>Sex and Gender (SS)</td>
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<td>SOCIOL/AIDS 320</td>
<td>Social Change in American Indian Societies (SS/CD)</td>
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<td>SOCIOL/AIDS 321</td>
<td>Contemporary Issues of the American Indian (SS/CD)</td>
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<tr>
<td>SOCIOL 323</td>
<td>Perspectives on Latino Communities (SS/CD)</td>
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<tr>
<td>SPANISH 371</td>
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<td>SPANISH 373</td>
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<td>WGS 192</td>
<td>First-Year Seminar: (HU)</td>
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<tr>
<td>WGS 200</td>
<td>Introduction to Women's and Gender Studies: A Social Science Perspective (SS)</td>
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<td>WGS 201</td>
<td>Introduction to Women's and Gender Studies: A Humanities Perspective (HU)</td>
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**Area III. Global Perspectives on Culture and Community**

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<tr>
<td>AFRICOL 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers (HU/CD) (if not selected in Area II)</td>
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<tr>
<td>AFRICOL 232</td>
<td>Survey of African Societies and Cultures (SS)</td>
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<td>AFRICOL 235</td>
<td>African Americans and South Africa (HU)</td>
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<td>AFRICOL 334</td>
<td>Survey of Black American and Black Brazilian Societies (SS)</td>
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<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society (SS)</td>
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<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies (SS)</td>
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<tr>
<td>ANTHRO 250</td>
<td>Women's Roles in Cross-Cultural Perspective (SS)</td>
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<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment (SS)</td>
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<tr>
<td>ARABIC 111</td>
<td>Cultures and Civilizations of the Muslim Middle East (HU)</td>
<td>3</td>
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<tr>
<td>ARTHIST 104</td>
<td>African, New World and Oceanic Art and Architecture (HU)</td>
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<tr>
<td>ARTHIST 105</td>
<td>Asian Art and Architecture (HU)</td>
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<tr>
<td>CELTIC 133</td>
<td>Celtic Crossings: Overview of the History and Cultures of the Celtic World (HU)</td>
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<td>COMPLIT 133</td>
<td>Contemporary Imagination in Literature and the Arts (HU)</td>
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<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century. (HU)</td>
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<td>First-Year Seminar: (HU)</td>
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<tr>
<td>COMPLIT/AIDS 207</td>
<td>Global Literature from Antiquity to the 1600s: (HU)</td>
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<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present: (HU)</td>
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<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (HU)</td>
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<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion: (HU)</td>
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<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics: (HU)</td>
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**Area III. Global Perspectives on Culture and Community**

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<tr>
<td>WGS 200</td>
<td>Introduction to Women's and Gender Studies: A Social Science Perspective (SS)</td>
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<tr>
<td>WGS 201</td>
<td>Introduction to Women's and Gender Studies: A Humanities Perspective (HU)</td>
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**Topic: Latinos in the City (SS/CD)**
- Buffalo to Bingo: Changing American Indian Societies (SS/CD)

**Topic: Buffalo to Bingo: Changing American Indian Societies (SS/CD)**
- Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)
- Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)
- Multicultural America (SS/CD) (if not selected above)
- First-Year Seminar: (SS)
- Introduction to Anthropology: Culture and Society (SS)
- Introduction to Anthropology: Culture and Society (SS)
- Multicultural America (SS/CD) (if not selected above)
- First-Year Seminar: (SS)
- First-Year Seminar: (SS)
- Introduction to Anthropology: Culture and Society (SS)
- Introduction to Anthropology: Culture and Society (SS)
- Multicultural America (SS/CD) (if not selected above)
- First-Year Seminar: (SS)
Topic: Women and War in Latin America and the Caribbean

COMPLIT 233 Literature and Film: (HU) (Topic: The Literature and Film of Globalization) 3

COMPLIT 309 Great Works of Modern Literature: (HU) (Topic: Cultural Identity and the Postcolonial Text) 3

CRM JST 410 Comparative Criminal Justice (SS) 3

ECON 193 First-Year Seminar: (SS) (Topic: Growth and Development of China, Japan, and Korea) 3

ENGLISH 243 Introduction to Literature by Women: (HU) (Topic: Literature About Women of East and Southeast Asia) 3

ENGLISH 278 Introduction to World Literatures Written in English: (HU) (Topic: Literature from the Middle East) 3

ENGLISH 685 Honors Seminar: (HU) (Topic: African Fiction) 3

FLL 216 Survey of Civilization: (HU) (Topic: Language, Culture, and Politeness) 3

GEOG 110 The World: Peoples and Regions (SS) (if not selected in Area V) 3

GEOG 115 Globalization and Economic Development (SS) 3

GEOG 193 First-Year Seminar: (SS) (Topic: Exploring India – Societies, Cultures, and Environments) 3

GEOG 213 Geography of Asia (SS) (if not selected in Area V) 3

GEOG 231 Muslim Geographies: Identities and Politics, Geography of Islam (SS) 3

GLOBAL 101 Introduction to Global Studies I: People and Politics (SS) 3

GLOBAL 202 Introduction to Global Studies III: Globalization and Technology (SS) 3

HEBR ST 238 Topics in Hebrew/Jewish Literature, Art, and Culture: (HU) 3

Topic: The Arab-Israeli Conflict

Topic: Judaism, Christianity, Islam: Three Religions – One God

Topic: Moses, Jesus, Mohammed

Topic: The Ten Commandments – History, Ethics, and Society

Topic: Hebrew Culture: From the Bible to Popular Movies

Topic: Conflict and Frustration in Modern Hebrew Film

HEBR ST 254 Studies in Hebrew Culture: (HU) 3

Topic: Arabs and Jews in the Middle East: Conflict or Peace

Topic: The Holocaust

Topic: Contemporary Israeli Film

Topic: Introduction to Jewish Ethics

HEBR ST 261 Representing the Holocaust in Words and Images (HU) 3

HEBR ST 368 Jewish and Christian Responses to the Holocaust (HU) 3

HIST 175 East Asian Civilization to 1600 (HU) 3

HIST 176 East Asian Civilization Since 1600 (HU) 3

HIST 180 Latin American Society and Culture (SS) 3

HIST 192 First-Year Seminar: (HU) 3

Topic: Global Religions: Diversity and Dialogue

Topic: History and Globalization

HIST 193 First-Year Seminar: (SS) (Topic: History and Globalization) 3

HIST 200 Historical Roots of Contemporary Issues: (SS) 3

Topic: Latin America and Globalization

Topic: The African Diaspora

HIST 210 The Twentieth Century: A Global History (SS) 3

HIST 280 Islamic Civilization: The Formative Period, ca. 500-1258 (HU) 3

HIST 282 The Modern Middle East in the Nineteenth and Twentieth Centuries (HU) 3

HIST 284 Buddhism Across Asia (HU) 3

HIST 287 The Vietnam War (SS) 3

HIST 379 Introduction to Jewish History (HU) 3

HIST 398 Honors Seminar: (Topic: History, Memory, and Reconciliation in East Asia (HU) 3

JEWISH 247 Topics in Jewish Literature, Art, and Culture: (HU) (Topic: Anti-Semitism from Biblical Times to the Present) 3

JEWISH/HEBR ST 261 Representing the Holocaust in Words and Images (HU) 3

JEWISH/HEBR ST 368 Jewish and Christian Responses to the Holocaust (HU) 3

JEWISH 379 Introduction to Jewish History (HU) 3

LACS 101 Introduction to Latin American and Caribbean Studies (HU) 3

LACUSL/THEATRE 324 Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre 3

PHILOS 204 Introduction to Asian Religions (HU) 3

POL SCI 106 Politics of the World’s Nations (SS) 3

POL SCI 175 Introduction to International Relations (SS) 3

POL SCI 371 Nationalism and Ethnic Conflict (SS) 3

PORTUGS 192 First-Year Seminar: (HU) 3

Topic: History of Brazil

Topic: Samba to Punk: Lusophone Music and Citizenship

PORTUGS 225 Understanding Brazil: (HU) 3

Topic: African Presence in Brazilian Culture and Literature

Topic: Race, Class, and Gender

PORTUGS 360 Lusophone Culture: (HU) 3

Topic: Brazilian Music

Topic: Brazilian Culture Through Film

Topic: Music of Brazil and Portuguese-Speaking Countries

PORTUGS 380 Lusophone Literature in Translation: (HU) 3

Topic: Race, Gender, and Military Struggles – Africa, Brazil, etc.

Topic: The Lusophone Triangle: Portugal, Brazil, Africa

RELIGST 101 Introduction to World Religions (HU) 3
**RUSSIAN 192**  First-Year Seminar: (HU) (Topic: Russia Today)  3

**SCNDVST 192**  First-Year Seminar: (HU) (Topic: Trolls, Gnomes, and Goblins: Scandinavian Myth and Legend)  3

**SOCIOL 103**  World Society (SS)  3

**SOCIOL 235**  Social Change in the Global Economy (SS)  3

**SPANISH 225**  Understanding the Hispanic World: (subtitle) (HU)  3

**SPANISH 380**  Hispanic Literature in Translation: (subtitle) (HU)  3

**SPANISH 391**  Social and Historical Issues in the Hispanic World: (subtitle) (HU)  3

**THEATRE/LACUSL 324**  Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre  3

### Area IV. Art, Culture, and Community

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<tr>
<td>ART 100</td>
<td>American Art and Culture (A/CD) (LEC with CC content only)</td>
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<tr>
<td>ART 105</td>
<td>Art &amp; Design Lecture Series (A)</td>
<td>3</td>
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<td>ART 106</td>
<td>Art Survey (A)</td>
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<tr>
<td>ART 150</td>
<td>Multicultural America (A/CD)</td>
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<tr>
<td>ART ED 130</td>
<td>Multicultural Art and Visual Learning in Elementary Education (A/CD)</td>
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<tr>
<td>DANCE 122</td>
<td>African Dance &amp; Diaspora Technique I (A/CD)</td>
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<td>DANCE 313</td>
<td>History of Dance in the African Diaspora (A/CD)</td>
<td>3</td>
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<td>DANCE 320</td>
<td>Rituals and Culture (A)</td>
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<td>DANCE 360</td>
<td>Movement and Learning (A)</td>
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<td>DANCE 370</td>
<td>World Movement Traditions: (A)</td>
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<tr>
<td></td>
<td>Topic: Dances of the World</td>
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<td>Topic: Hip Hop 1/2/3</td>
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<td>Topic: Salsa/Merengue, Tai-Chi, Capoeira: Afro Brazilian Dance</td>
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<td></td>
<td>Topic: Capoeira: Afro Brazilian Dance</td>
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<td>FILM 150</td>
<td>Multicultural America (A/CD) (if not selected above)</td>
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<td>FILM 302</td>
<td>Video in the Classroom (A)</td>
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<td>MUSIC 102</td>
<td>American Popular Music (A)</td>
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<td>MUSIC 280</td>
<td>Special Studies in Music: (Topic: Music in American Culture (A/CD)</td>
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<td>MUSIC 309</td>
<td>American Folk and Popular Music (A)</td>
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<td>MUSIC 310</td>
<td>Introduction to World Musics (A)</td>
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<td>THEATRE 120</td>
<td>Performance and Popular Culture (A)</td>
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<td>THEATRE 204</td>
<td>Theatre and Social Change (A)</td>
<td>3</td>
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<td>THEATRE 260</td>
<td>Storytelling: (A)</td>
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<tr>
<td></td>
<td>Topic: Elder Tales</td>
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<td></td>
<td>Topic: Milwaukee - Stories from Our Own Backyard</td>
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<td>Topic: Stories and the Cultural Voice</td>
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### Area V. Science, Culture, and Society

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<tr>
<td>AIS 105</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Culture (CD; if not selected in Area II)</td>
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<td>AIS 106</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD; if not selected in Area II)</td>
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<tr>
<td>BIO SCI 103</td>
<td>Topics in Modern Biology (NS)</td>
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<td>Topic: Biology Through Art (NS)</td>
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<td>Topic: Discovering DNA: Our Society and Health (NS)</td>
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<td>BIO SCI 194</td>
<td>First-Year Seminar: (NS) (Topic: Forbidden Knowledge: Science and Censorship)</td>
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<td>BIO SCI 206</td>
<td>Biology of Women (NS)</td>
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<td>CHEM 381</td>
<td>Honors Seminar: (NS) (Topic: Sustainable Earth: Environmental and Societal Development)</td>
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<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
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<td>GEOG 110</td>
<td>The World: Peoples and Regions (SS) (if not selected in Area III)</td>
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<td>GEOG 125</td>
<td>Introduction to Environmental Geography (NS)</td>
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<td>GEOG 140</td>
<td>Our Urban Environment: Introduction to Urban Geography (SS)</td>
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<td>GEOG 213</td>
<td>Geography of Asia (SS) (if not selected in Area III)</td>
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<tr>
<td>GEG 350</td>
<td>Conservation of Natural Resources (SS)</td>
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<td>Course offered by the College of Health Sciences; also available as BMS, ComSDIs, HCA, Kin, OccThpy, and TherRec</td>
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<td>HIST 229</td>
<td>History of Race, Science, and Medicine in the United States (HU/CD; if not selected in Area II)</td>
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<td>L&amp;S NS 295</td>
<td>Seminar in the Natural Sciences: (NS) (if not selected in Area II)</td>
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<td>Topic: Seminar on Green Science and Urban Spaces</td>
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<td>NURS 101</td>
<td>Cultural Diversity in Health Care (SS/CD)</td>
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<td>NURS 380</td>
<td>Honors Seminar: (SS) (Topic: Negotiating Differences: Race and Culture in Contemporary Healthcare)</td>
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<td>PHILOS 244</td>
<td>Ethical Issues in Health Care: (subtitle) (HU)</td>
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<td>PHYSICS 194</td>
<td>First-Year Seminar: (NS) (Topic: Physics, Science, and Technology in Our Society: Friend or Foe?)</td>
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<td>RELIGST 106</td>
<td>Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)</td>
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</tbody>
</table>

### Contact Information

Current Students contact the Program’s advisor, cc-info@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/cultures-communities/students/
DIGITAL ARTS AND CULTURE

The Digital Arts and Culture (DAC) area is interdisciplinary, combining courses in the areas of arts, humanities, social sciences, and information studies. The undergraduate program offers two learning tracks, a certificate and an multi-disciplinary major.

Programs

- Committee Interdisciplinary Major, BA: Digital Arts and Culture (p. 1205)
- Digital Arts and Culture, Undergraduate Certificate (p. 1210)

Digital Arts and Culture Courses

DAC 199 Independent Study
1-3 cr. Undergraduate.
Independent work supervised by Digital Arts and Culture faculty or staff member. Written course proposal required prior to reg. For additional information, consult prog coord.
Prerequisites: 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

DAC 289 Internship in Digital Arts and Culture, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Digital Arts and Culture in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.5 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

DAC 296 UROP Apprenticeship, Lower Division
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

DAC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

DAC 489 Internship in Digital Arts and Culture, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Digital Arts and Culture in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.5 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

DAC 496 UROP Apprenticeship, Upper Division
1-3 cr. Undergraduate.
Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

DAC 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

DAC 661 Digital Engagement Seminar
3 cr. Undergraduate/Graduate.
Production of a digital portfolio demonstrating achievement of DAC program learning goals.
Prerequisites: declared DAC major; completion of 12 cr approved DAC courses.
Current Offerings: http://uwm.edu/schedule

DAC 699 Advanced Independent Study
1-3 cr. Undergraduate.
Independent work supervised by Digital Arts and Culture faculty or staff member. Writ course proposal req’d prior to reg. For add’l info, consult prog coord.
Prerequisites: jr st; 2.50 gpa; writ cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

Committee Interdisciplinary Major,
BA: Digital Arts and Culture

The Committee Interdisciplinary Major with a focus on Digital Arts and Culture (DAC) is an interdisciplinary degree program, combining courses in the areas of arts, humanities, social sciences, and information studies. The major aims to empower learning communities by leading students to a variety of opportunities: to develop skills and understanding of new knowledge production and research methods; to operate with confidence as media practitioners and global communicators with a diverse range of media literacies; and to collaborate and contribute as creative problem solvers using digital media in a networked culture.

Students who complete the Digital Arts & Culture major will be able to:

- Analyze digital and electronic media systems, explaining what these platforms do and how they do it.
- Engage with complex digital issues: online, offline, via ubiquitous computing hardware and software.
- Organize information, both architecturally and visually, structuring software, websites, advertisements, social media, and more.
- Demonstrate hands-on, collaborative, and cross-disciplinary, media production with artists and designers.
Coursework is drawn from three schools/colleges at UWM: Peck School of the Arts, College of Letters and Science, and School of Information Studies, with an overarching interest in the study and practice of Arts, Information, and Media.

Five categories of courses define the themes of the major:

- **Core Culture**, introducing students to essential cultural and historical dimensions of Digital Art and network practices.
- **Media Systems**, providing an overview of media industries.
- **Digital Composition**, building on the foundations of the 100-level core culture courses, encompassing courses that set out competencies in composing with concepts and tools of digital media for students to achieve.
- **Understanding Digital Culture**, engaging at the upper levels to analyze more complex systems and issues.
- **Practicing the Digital Arts**, also engaging at the upper levels, as a means of gaining practical experience organizing and collaborating in media production processes.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
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<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
</tbody>
</table>

**Select 3 credits**

**Humanities**

Select 6 credits

**Social Sciences**

Select 6 credits

**Natural Sciences**

Select 6 credits (at least two courses including one lab)

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

**College of Letters & Science Requirements**

**I. English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

   **Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>
### II. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIBL 201</td>
<td>Introduction to Cultural Diversity</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** This requirement is **NOT** the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td>0-18</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete in one of the following ways: 1</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

- Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above
- Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas
- Complete 9 credits in combination of the two options above

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+/+) designation, L&S students must complete the Breadth requirement.

- Select 3 credits
- Complete 12 credits of L&S Courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *
- Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *
- Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *
- Complete 3 credits in a course with Cultural Diversity (CD) designation. **

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

### Digital Arts and Culture Degree Requirements

You are strongly advised to consult both the DAC advisor and your L&S advisor to ensure you stay on track towards a degree. A total of 36 credits is required for the major, of which at least 15 upper-level L&S credits must be completed in residence at UWM. No more than 21 credits from a single curricular area may count toward the submajor. Students must earn a 2.500 GPA on all UWM credits that count toward the submajor. In addition, the College requires that students earn a minimum 2.500 GPA on all submajor credits including transfer work.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 113</td>
<td>Internet Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Media Systems Courses (3 credits)**

Select one of the following:

- ART/HIST/ENGLISH/ FILMSTD 111 Entertaiment Arts: Film, Television, and the Internet
- INFOST 110 Introduction to Information Science and Technology
- JAMS 101 Introduction to Mass Media

**Digital Composition Courses (6 credits)**

Select two of the following:

- ART 212 Introduction to Digital Studio: A/V Strategies
- ART 221 Introduction to Design
- ENGLISH 202 Writing in the Humanities
- ENGLISH 214 Writing in the Professions:
- INFOST 240 Web Design I
- JAMS 201 Media Writing
- JAMS 231 Publication Design
- FILM 255 Introduction to Digital Arts

**Understanding Digital Culture Courses (3 credits)**

Select one of the following:

- ANTHRO 302 Anthropology and Popular Culture
- COMMUN 313 Human Communication and Technology
- ENGLISH/FILMSTD 380 Media and Society:
- INFOST 310 Human Factors in Information Seeking and Use
- JAMS 356 Media Literacy

**Practicing the Digital Arts Courses (3 credits)**

Select one of the following:

- ART 312 Intermediate Digital Studio
- ART 324 Web Design
- ENGLISH 439 Information Design
- INFOST 350 Introduction to Application Development
- INFOST 430 Multimedia Application Development
- JAMS 336 Media Graphics

**Capstone Seminar (3 credits)**

DAC 661 Digital Engagement Seminar 3

**Electives (12 credits)**

Select at least 6 credits from the Understanding Digital Culture Expanded Electives and 3 credits from the Practicing Digital Arts Expanded Electives. The remaining 3 credits can come from either group. At least one course from each group should be numbered 300 or above.

**Understanding Digital Culture Expanded Electives**

- ANTHRO 302 Anthropology and Popular Culture (if not selected above)
- ANTHRO 340 Cultures of Online Games and Virtual Worlds
- ART 309 Issues in Contemporary Art:
  - ART/HIST/ENGLISH/ FILMSTD 111 Entertainment Arts: Film, Television, and the Internet (if not selected above)
  - ART/HIST 472 History and Theory of New Media Art
- COMMUN 310 Communication in Organizations
- COMMUN 313 Human Communication and Technology (if not selected above)
- COMMUN 410 Organizational Communication Technology
- COMMUN 413 Rhetoric and the Internet
- COMMUN 440 Contemporary Problems in Freedom of Speech
- COMPLIT 133 Contemporary Imagination in Literature and the Arts
- COMPLIT 135 Experiencing Literature in the 21st Century:
- COMPLIT 233 Literature and Film:
- DAC 199 Independent Study
- DAC 699 Advanced Independent Study
- ENGLISH 253 Science Fiction:
- ENGLISH 290 Introduction to Film Studies
- ENGLISH 291 Introduction to Television Studies
- ENGLISH 294 Game Culture
- ENGLISH 310 Writing, Speaking, and Technoscience in the 21st Century
- ENGLISH/FILMSTD 312 Topics in Film Studies:
- ENGLISH/FILMSTD 329 Film and Literature
- ENGLISH/FILMSTD 380 Media and Society (if not selected above)
- ENGLISH 383 Cinema and Genre:
- ENGLISH 394 Theories of Mass Culture:
- FILMSTD 212 Intermediate Topics in Film Studies:
- GLOBAL 202 Introduction to Global Studies III: Globalization and Technology
- GLOBAL 351 Language, Media, and Social Practice in Global Communications
- GLOBAL 500 Global Studies Capstone Seminar: (Global Communications)
- GLOBAL 551 Global Communications Capstone: Future Trends (Future Trends)
- INFOST 110 Introduction to Information Science and Technology (if not selected above)
- INFOST 120 Information Technology Ethics
- INFOST 310 Human Factors in Information Seeking and Use (if not selected above)
- INFOST 465 Legal Aspects of Information Products and Services
- INFOST 674 The Search Engine Society
- INFOST 675 Information Technology and Organizations
- JAMS 101 Introduction to Mass Media (if not selected above)
- JAMS 111 Gender and the Media
### Practicing the Digital Arts Expanded Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAMS 260</td>
<td>Contemporary Non-Fiction Media</td>
</tr>
<tr>
<td>JAMS 262</td>
<td>Principles of Media Studies</td>
</tr>
<tr>
<td>JAMS 356</td>
<td>Media Literacy (if not selected above)</td>
</tr>
<tr>
<td>JAMS 450</td>
<td>Race and Ethnicity in the Media</td>
</tr>
<tr>
<td>JAMS 460</td>
<td>History of Mass Media</td>
</tr>
<tr>
<td>JAMS 461</td>
<td>Media Ethics</td>
</tr>
<tr>
<td>JAMS 559</td>
<td>Freedom of Expression in the Digital Age</td>
</tr>
<tr>
<td>JAMS 652</td>
<td>Media Studies and Culture</td>
</tr>
<tr>
<td>JAMS 645</td>
<td>Seminar in Health and the Media</td>
</tr>
</tbody>
</table>

### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uw.mx/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uw.mx/campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uw.mx.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.
All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Senior Lecturer Marc Tasman, mtasman@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/digital-arts-culture/undergraduate/

Digital Arts and Culture, Undergraduate Certificate

The Digital Arts and Culture (DAC) undergraduate certificate is an interdisciplinary degree program, combining courses in the areas of arts, humanities, social sciences, and information studies.

The program aims to empower learning communities by leading students to a variety of opportunities: to develop skills and understanding of new knowledge production and research methods; to operate with confidence as media practitioners and global communicators with a diverse range of media literacies; and to collaborate and contribute as creative problem solvers using digital media in a networked culture.

Students in the Digital Arts & Culture program will be able to:

• Engage with complex digital issues: online, offline, via ubiquitous computing hardware and software.
• Organize information, both architecturally and visually, structuring software, websites, advertisements, social media, and more.
• Demonstrate hands-on, collaborative, and cross-disciplinary, media production with artists and designers.

Coursework is drawn from three schools/colleges at UWM: Peck School of the Arts, College of Letters and Science, and School of Information Studies, with an overarching interest in the study and practice of Arts, Information, and Media.

Five categories of courses define the themes of the program:

• Core Culture, introducing students to essential cultural and historical dimensions of Digital Art and network practices.
• Media Systems, providing an overview of media industries.
• Digital Composition, building on the foundations of the 100-level core culture courses, encompassing courses that set out competencies in composing with concepts and tools of digital media for students to achieve.
• Understanding Digital Culture, engaging at the upper levels to analyze more complex systems and issues.
• Practicing the Digital Arts, also engaging at the upper levels, as a means of gaining practical experience organizing and collaborating in media production processes.

Eligibility

The certificate program is open to all students seeking a bachelor’s degree from UWM, to students who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements.

Requirements

To obtain the certificate, students must complete a minimum of 24 credits with a GPA of 2.50 or above; at least 9 of these credits must be at the 300 level or above. At least 12 credits must be in courses from the College of Letters and Science, and at least 6 of the L&S credits must be at the 300 level or above. No more than 15 credits from a single curricular area may apply toward satisfaction of the certificate requirements. The following requirements must be met. All courses are 3 credits unless otherwise noted.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Foundation Culture Courses</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 113</td>
<td>Internet Culture</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Media Systems Courses</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ARTHIST/ENGLISH/FILMSTD 111</td>
<td>Entertainment Arts: Film, Television, and the Internet</td>
<td>3</td>
</tr>
</tbody>
</table>
**Understanding Digital Culture Courses**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 302</td>
<td>Anthropology and Popular Culture</td>
</tr>
<tr>
<td>COMMUN 310</td>
<td>Communication in Organizations</td>
</tr>
<tr>
<td>COMMUN 313</td>
<td>Human Communication and Technology</td>
</tr>
<tr>
<td>ENGLISH 210</td>
<td>Global English</td>
</tr>
<tr>
<td>ENGLISH 380</td>
<td>Media and Society</td>
</tr>
<tr>
<td>INFOST 310</td>
<td>Human Factors in Information Seeking and Use</td>
</tr>
<tr>
<td>JAMS 356</td>
<td>Media Literacy</td>
</tr>
</tbody>
</table>

**Practicing the Digital Arts Courses**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 312</td>
<td>Intermediate Digital Studio</td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
</tr>
<tr>
<td>INFOST 350</td>
<td>Introduction to Application Development</td>
</tr>
<tr>
<td>INFOST 430</td>
<td>Multimedia Application Development</td>
</tr>
<tr>
<td>JAMS 336</td>
<td>Media Graphics</td>
</tr>
</tbody>
</table>

**Electives**

Select 12 additional credits from the lists below, including at least 6 credits from Understanding Digital Culture and 6 credits from Practicing the Digital Arts. At least one of these courses should be numbered 300 or above.

**Understanding Digital Culture Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 302</td>
<td>Anthropology and Popular Culture (if not selected above)</td>
</tr>
<tr>
<td>ANTHRO 340</td>
<td>Cultures of Online Games and Virtual Worlds</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
</tr>
<tr>
<td>ARTHIST/ENGLISH/FILMSTD 111</td>
<td>Entertainment Arts: Film, Television, and the Internet (if not selected above)</td>
</tr>
<tr>
<td>ARTHIST 472</td>
<td>History and Theory of New Media Art</td>
</tr>
<tr>
<td>COMMUN 310</td>
<td>Communication in Organizations</td>
</tr>
<tr>
<td>COMMUN 313</td>
<td>Human Communication and Technology (if not selected above)</td>
</tr>
<tr>
<td>COMMUN 410</td>
<td>Organizational Communication Technology</td>
</tr>
<tr>
<td>COMMUN 413</td>
<td>Rhetoric and the Internet</td>
</tr>
<tr>
<td>COMMUN 440</td>
<td>Contemporary Problems in Freedom of Speech</td>
</tr>
<tr>
<td>COMPLIT 133</td>
<td>Contemporary Imagination in Literature and the Arts</td>
</tr>
<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century.</td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film:</td>
</tr>
<tr>
<td>ENGLISH 210</td>
<td>Global English</td>
</tr>
<tr>
<td>ENGLISH 380</td>
<td>Media and Society</td>
</tr>
<tr>
<td>ENGLISH 383</td>
<td>Cinema and Genre</td>
</tr>
<tr>
<td>ENGLISH 394</td>
<td>Theories of Mass Culture:</td>
</tr>
<tr>
<td>FILMSTD/ARTHIST/ENGLISH 111</td>
<td>Entertainment Arts: Film, Television, and the Internet (if not selected above)</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (with approved subtitle)</td>
</tr>
<tr>
<td>FILMSTD 290</td>
<td>Introduction to Film Studies</td>
</tr>
<tr>
<td>FILMSTD 291</td>
<td>Introduction to Television Studies</td>
</tr>
<tr>
<td>FILMSTD/ENGLISH 312</td>
<td>Topics in Film Studies: (Cinema and Digital Culture or Science Fiction – Utopia and Dystopia)</td>
</tr>
<tr>
<td>GLOBAL 202</td>
<td>Introduction to Global Studies III: Globalization and Technology</td>
</tr>
<tr>
<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
</tr>
<tr>
<td>GLOBAL 500</td>
<td>Global Studies Capstone Seminar: (Global Communication)</td>
</tr>
<tr>
<td>GLOBAL 551</td>
<td>Global Communications Capstone: Future Trends</td>
</tr>
<tr>
<td>INFOST 110</td>
<td>Introduction to Information Science and Technology (if not selected above)</td>
</tr>
<tr>
<td>INFOST 120</td>
<td>Information Technology Ethics</td>
</tr>
<tr>
<td>INFOST 310</td>
<td>Human Factors in Information Seeking and Use (if not selected above)</td>
</tr>
<tr>
<td>INFOST 465</td>
<td>Legal Aspects of Information Products and Services</td>
</tr>
<tr>
<td>INFOST 674</td>
<td>The Search Engine Society</td>
</tr>
<tr>
<td>INFOST 675</td>
<td>Information Technology and Organizations</td>
</tr>
<tr>
<td>JAMS 101</td>
<td>Introduction to Mass Media (if not selected above)</td>
</tr>
<tr>
<td>JAMS 111</td>
<td>Gender and the Media</td>
</tr>
<tr>
<td>JAMS 260</td>
<td>Contemporary Non-Fiction Media</td>
</tr>
<tr>
<td>JAMS 262</td>
<td>Principles of Media Studies</td>
</tr>
<tr>
<td>JAMS 356</td>
<td>Media Literacy (if not selected above)</td>
</tr>
<tr>
<td>JAMS 450</td>
<td>Race and Ethnicity in the Media</td>
</tr>
<tr>
<td>JAMS 460</td>
<td>History of Mass Media</td>
</tr>
</tbody>
</table>
### Practicing the Digital Arts

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>ART 212</td>
<td>Introduction to Digital Studio: A/V Strategies</td>
<td></td>
</tr>
<tr>
<td>ART 218</td>
<td>2D Design Strategies</td>
<td></td>
</tr>
<tr>
<td>ART 221</td>
<td>Introduction to Design</td>
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</tr>
<tr>
<td>ART 253</td>
<td>Introduction to Photography</td>
<td></td>
</tr>
<tr>
<td>ART 312</td>
<td>Intermediate Digital Studio (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>ART 316</td>
<td>Interactive and Multimedia Art</td>
<td></td>
</tr>
<tr>
<td>ART 318</td>
<td>Electronics and Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design (if not selected above)</td>
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<tr>
<td>ART 325</td>
<td>Web Design II</td>
<td></td>
</tr>
<tr>
<td>ART 327</td>
<td>Digital Media Workshop:</td>
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</tr>
<tr>
<td>ART 393</td>
<td>Digital Printmaking</td>
<td></td>
</tr>
<tr>
<td>ART 424</td>
<td>Topics in Web, Interaction and Screen Design:</td>
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</tr>
<tr>
<td>ART 426</td>
<td>Motion Graphics</td>
<td></td>
</tr>
<tr>
<td>DAC 289</td>
<td>Internship in Digital Arts and Culture, Lower Division</td>
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<tr>
<td>DAC 489</td>
<td>Internship in Digital Arts and Culture, Upper Division</td>
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<tr>
<td>DAC 661</td>
<td>Digital Engagement Seminar</td>
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</tr>
<tr>
<td>ENGLISH 202</td>
<td>Writing in the Humanities</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions: (Writing and Social Media for Careers)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 328</td>
<td>Forms of Experimental Literature:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications:</td>
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<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing, Professional and Technical Communications</td>
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<tr>
<td>ENGLISH 436</td>
<td>Technical Documentation</td>
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<tr>
<td>ENGLISH 437</td>
<td>Project Management for Professional Writers</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 515</td>
<td>Literature and the Other Arts:</td>
<td></td>
</tr>
<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts</td>
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<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
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<tr>
<td>FILM 255</td>
<td>Introduction to Digital Arts</td>
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<tr>
<td>FILM 302</td>
<td>Video in the Classroom</td>
<td></td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module:</td>
<td></td>
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<tr>
<td>FINEART 313</td>
<td>Programming for Artists I</td>
<td></td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td></td>
</tr>
</tbody>
</table>

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Committee.

### Contact Information

Current Students contact Senior Lecturer Marc Tasman, mtasman@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/digital-arts-culture/undergraduate/certificate/
ECONOMICS

Economics is the study of choice. In a world with scarce resources (such as raw materials, labor, time), economists study how people choose to use those resources to make people as well-off as possible. The economics curriculum stresses both theory and application of important economic issues in society, such as unemployment, inflation, exchange rates, labor markets, economic development, environmental policies, and international trade and finance.

The Department of Economics in the College of Letters and Science offers a wide variety of courses in economic theory, policy, and statistics.

Related Programs
A related special major is international studies (p. 1490); a related degree program is the BA in Global Studies (p. 1438).

Programs
- Economics, BA (p. 1220)
- Economics, MA (p. 1224)
- Economics, Minor (p. 1225)
- Economics, PhD (p. 1225)

Economics Courses

ECON 100 Introductory Economics
3 cr. Undergraduate.
A one semester survey of current national and international economic problems. Useful as preparation for Econ 103 and 104. Not required of economics majors.
Prerequisites: none.
Course Rules: Not open for cr to students who have cr in Econ 103 & 104.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ECON 103 Principles of Microeconomics
3 cr. Undergraduate.
Economic reasoning; price determination, specialization, and efficiency. Applications include international trade, antitrust, environmental protection, highway congestion.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ECON 104 Principles of Macroeconomics
3 cr. Undergraduate.
Composition of national income, interrelationship of sectors; determination of national income and productivity; relationship between national income, inflation, money, interest rates; U.S. global economies interaction.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ECON 110 Economics of Personal Finance
1 cr. Undergraduate.
Economics of personal financial management; development of successful financial skills; activity-based course with assignments emphasizing students’ individual situations.
Prerequisites: none.
Course Rules: No cr for students who have cr in Econ 258 w/same topic.
Current Offerings: http://uwm.edu/schedule

ECON 193 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ECON 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ECON 210 Economic Statistics
3 cr. Undergraduate.
Basic probability and statistics; numerical and graphical methods of describing data, elementary probability, random variables and probability distributions, hypothesis testing, simple linear regression.
Prerequisites: Math 105(P), or Math 108(P), or Math Placement Level 30 or higher.
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ECON 231 Analysis of American Industries
3 cr. Undergraduate.
Performance of key U.S. industries (e.g. education, beer, cars, medicinal drugs, radio, television, sports, steel, food, music recording); their responses to changing national/international economic conditions.
Prerequisites: soph st; Econ 103(P).
Current Offerings: http://uwm.edu/schedule

ECON 248 Economics of Discrimination
3 cr. Undergraduate.
Use of economic theory to examine the history, current status, and policies regarding various minority groups in the United States. Applications include education, housing, jobs.
Prerequisites: none.
General Education Requirements: SS, CD
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
ECON 258 Selected Topics in Economics:
1-3 cr. Undergraduate.
Focus on special topics not normally discussed in detail in other existing courses.
Prerequisites: soph st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ECON 289 Internship in Economics, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of economics in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: 100-level course in Econ; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr granted for academic work based on 40 hrs in the internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ECON 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ECON 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ECON 301 Intermediate Microeconomics
3 cr. Undergraduate.
Contemporary theory of consumption, production, pricing, resource allocation, and distribution.
Prerequisites: Econ 103(P).
Current Offerings: http://uwm.edu/schedule

ECON 302 Intermediate Macroeconomics
3 cr. Undergraduate.
Analysis of savings, production, investment and other aggregates in the national and international economy as related to the determination of national income, inflation, and unemployment.
Prerequisites: Econ 104(P).
Current Offerings: http://uwm.edu/schedule

ECON 310 Research Methods for Economics
3 cr. Undergraduate/Graduate.
Statistical research methods, especially cross-section and time-series regression, applied to evaluation of empirical literature and a directed research project.
Prerequisites: jr st; Econ 210(P) or cons instr.
Course Rules: Not open for cr to students who have cr in Econ 513(531).
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ECON 325 Money and Banking
3 cr. Undergraduate.
Stocks, bonds, derivatives, foreign exchange. Analysis of commercial banks, investment banks, brokerages, etc. Domestic and international monetary theory and policy. Risk insurances, regulations, deregulation.
Prerequisites: Econ 104(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ECON 328 Environmental Economics
3 cr. Undergraduate.
Evaluating public policy of environmental and natural resources. Regulation of pollution, endangered species, natural resources, and other case studies.
Prerequisites: Econ 103(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ECON 333 Economics and Law
3 cr. Undergraduate.
Prerequisites: Econ 103(P).
Last Taught: Spring 2012.
Current Offerings: http://uwm.edu/schedule

ECON 335 Economics of Antitrust Laws
3 cr. Undergraduate.
Examination of laws intended to increase competition; their evolution through landmark cases involving price fixing, mergers toward monopoly, and unfair competition including IBM, AT&T, Microsoft.
Prerequisites: Econ 103(P).
Current Offerings: http://uwm.edu/schedule

ECON 351 Introduction to International Economic Relations
3 cr. Undergraduate.
International economics and finance, determinants and structure of international trade, commercial policy, foreign exchange markets, and balance of payments.
Prerequisites: Econ 100(P); or both 103(P) & 104(P).
Course Rules: Not open for cr to students who have cr in both Econ 454 & 455.
Current Offerings: http://uwm.edu/schedule
ECON 353 Economic Development
3 cr. Undergraduate.
Examination of determinants of growth, modernization, poverty, and inequality in developing countries of Africa, Asia, and Latin America. Analysis of development strategies.
Prerequisites: Econ 103(P) & 104(P).
Current Offerings: http://uwm.edu/schedule

ECON 381 Honors Seminar
3 cr. Undergraduate.
Examination of current economic issues such as energy, environment, poverty, and human resource development.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ECON 404 Economic Applications of Game Theory
3 cr. Undergraduate.
Strategic interaction among decision makers. Studies multi-party decision problems of a firm, a government, or a country.
Prerequisites: jr st; Econ 301(R) or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ECON 411 Economic Forecasting Methods
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Econ 210(P); Econ 310(P) or cons instr.
Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ECON 413 Statistics for Economists
3 cr. Undergraduate/Graduate.
Elements of probability; joint marginal and conditional distributions; measures of central tendency and dispersion, calculus of expectations; central limit theorem. Estimation and testing of economic relations.
Prerequisites: jr st; Econ 210(P); Math 211(P) or cons instr, or Math 231(P). Math 232(R) & 233(R).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ECON 415 Economics of Employment and Labor Relations
3 cr. Undergraduate/Graduate.
Analysis of wage setting, labor markets, human capital and collective bargaining. Study of labor standards, regulation and the role of unions and government.
Prerequisites: jr st; Econ 103(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ECON 426 Public Economics
3 cr. Undergraduate/Graduate.
Economic analysis of government and policy, including taxation and expenditures, policy responses to market failures, redistributional programs, and related topics.
Prerequisites: jr st; Econ 104(P) & 301(P).
Current Offerings: http://uwm.edu/schedule

ECON 432 Industrial Organization
3 cr. Undergraduate/Graduate.
Economic analysis of asymmetric information, barriers to competitive entry, licensing, pricing practices/transactions costs; application to markets for insurance, computers, health care, used cars, food.
Prerequisites: jr st; Econ 301(P).
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ECON 447 Labor Economics
3 cr. Undergraduate/Graduate.
The economics of unions, minimum wage, poverty and welfare programs; influence of international trade on domestic labor markets. Study of labor supply and labor demand.
Prerequisites: jr st; Econ 301(P).
Current Offerings: http://uwm.edu/schedule

ECON 448 Economics of Human Resources
3 cr. Undergraduate/Graduate.
The economics of education, training, discrimination, and workplace incentives. Study of hiring, promotion, and job search.
Prerequisites: jr st; Econ 103(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ECON 450 Health Economics
3 cr. Undergraduate/Graduate.
Efficiency of medical care, health insurance and access to care, alternative models of health care delivery, health behaviors and public policy.
Prerequisites: jr st; Econ 103(P).
Current Offerings: http://uwm.edu/schedule

ECON 454 International Trade
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Econ 301(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ECON 455 International Finance
3 cr. Undergraduate/Graduate.
International monetary system; spot and foreign exchange markets; balance of payments; international adjustment mechanisms; international finance policy; history and institution.
Prerequisites: jr st; Econ 302(P).
Last Taught: Spring 2018, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ECON 458 Selected Topics in Economics:
3 cr. Undergraduate/Graduate.
Variable content course designed to focus on special topics not normally discussed in detail in other existing courses.
Prerequisites: jr st & cons instr.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ECON 489 Internship in Economics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of economics in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Econ; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr granted for academic work based on 40 hrs in the Internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ECON 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ECON 499 Ad Hoc:
1-3 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2002, Fall 1993.
Current Offerings: http://uwm.edu/schedule

ECON 506 Mathematical Economics I
3 cr. Undergraduate/Graduate.
Mathematical techniques used in economic analysis, including calculus and matrix algebra. Applications include optimizing behavior of firms and consumers.
Prerequisites: jr st, Econ 301(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ECON 513 Introduction to Econometrics
3 cr. Undergraduate/Graduate.
Multiple regression, generalized least squares, specification analysis, multicollinearity, multiple equations including simultaneous equations.
Prerequisites: jr st, Econ 413(P).
Current Offerings: http://uwm.edu/schedule

ECON 525 The Economics of Water
3 cr. Undergraduate/Graduate.
Comprehensive development of water resource economics for engineers, scientists, and economists; analysis of the public and private sector economics of water resources.
Prerequisites: jr st; Econ 103(P), Math 231(P); a statistics course; or cons instr.
Current Offerings: http://uwm.edu/schedule

ECON 560 Mathematical Economics II
3 cr. Undergraduate/Graduate.
Difference and differential equations applied to economic variables such as human capital, consumption, learning, energy use, and pollution. Essential preparation for graduate work.
Prerequisites: jr st; Econ 506(P).
Current Offerings: http://uwm.edu/schedule

ECON 697 Organizational Administration Capstone
3 cr. Undergraduate.
Internship, case analysis, or independent study that syntheses course work in graded paper.
Prerequisites: sr st; declared org adm major; satisfaction of GER English Composition competency req; cons instr.
Course Rules: Commun 697, Econ 697, & Sociol 697 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ECON 699 Independent Work
1-3 cr. Undergraduate.
Prerequisites: jr st, 2.5 gpa & writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/topic chg.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ECON 701 Economic Theory: Microeconomics
4 cr. Graduate.
Conventional theory of the behavior of firms, consumers, and markets; partial and general equilibria.
Prerequisites: grad st; Econ 301(P), Econ 506(R).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ECON 702 Economic Theory: Macroeconomics
4 cr. Graduate.
Aggregative economic analysis, problems of aggregation and significant aggregates; national income, flow-of-funds, and input-output.
Prerequisites: grad st; Econ 302(P), Econ 506(R).
Current Offerings: http://uwm.edu/schedule

ECON 703 Econometrics
4 cr. Graduate.
Regression theory, generalized least squares, heteroscedasticity, autocorrelation, multi-colinearity, distributed lags, and discrete variable models, system of equations.
Prerequisites: grad st
Course Rules: No cr for students who have grad cr in Econ 513.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ECON 706 Mathematical Economics
3 cr. Graduate.
Mathematical analysis of modern economic problems; dynamic input-output system, stability analysis, general equilibrium analysis, optimizing theory including linear and non-linear programming, activity analysis and turnpike theory, and mathematical growth models.
Prerequisites: grad st; Econ 506(P) & 606(P).
Last Taught: Fall 2007, Fall 2005, Fall 2004, Fall 2003.
Current Offerings: http://uwm.edu/schedule

ECON 707 Industrial Organization I
3 cr. Graduate.
Exploration of the relationship between industrial structure and market performance. Topics covered include r&d, advertising and government regulations. Prereq: grad st; Econ 301(P), 302(P) & 506(P), or cons instr.
Prerequisites: grad st; Econ 301(P) or cons instr; Econ 413(431)(R).
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ECON 708 Industrial Organization II
3 cr. Graduate.
Evaluation of the economic impact of the anti-trust laws. Topics covered include horizontal restraint, vertical restraint, patent, and mergers.
Prerequisites: grad st; Econ 301(P), 302(P), & 413(P).
Current Offerings: http://uwm.edu/schedule

ECON 709 Industrial Organization II
3 cr. Graduate.
Trends in U.S. urbanization and suburbanization. Studies of urban household and firm behavior. General equilibrium analytical and simulation models of urban structure.
Prerequisites: grad st; Econ 301(P).
Last Taught: Fall 2007, Fall 2005, Fall 2004, Fall 2003.
Current Offerings: http://uwm.edu/schedule

ECON 710 Applied Econometrics
3 cr. Graduate.
Specification, estimation and testing of economic theory. Application of distributed lags, autoregressive models, system of equations, discrete choice models and cointegration principles.
Prerequisites: grad st; Econ703(P).
Current Offerings: http://uwm.edu/schedule

ECON 711 Urban Economic Theory
3 cr. Graduate.
Trends in U.S. urbanization and suburbanization. Studies of urban household and firm behavior. General equilibrium analytical and simulation models of urban structure.
Prerequisites: grad st; Econ 301(P).
Current Offerings: http://uwm.edu/schedule

ECON 712 Regional Economic Theory
3 cr. Graduate.
Location theory and land-use patterns, regional social accounts and input-output models, shift-share analysis, regional econometric model, and growth policies.
Prerequisites: grad st; Econ 301(P) or cons instr; Econ 413(431)(R).
Current Offerings: http://uwm.edu/schedule

ECON 713 Money, Income, and Prices
3 cr. Graduate.
Analysis of the demand for money by monetary theorists. Integration of theories into general equilibrium macro-models.
Prerequisites: grad st; Econ 302(P). Econ 702(R).
Last Taught: Fall 2016, Fall 2014, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ECON 714 Foundations of Econometric Methods
3 cr. Graduate.
Prerequisites: grad st; Econ 413(431)(P) & 506(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ECON 715 Econometric Methods I
3 cr. Graduate.
Review of statistical inference, asymptotic distribution theory, multivariate regression model and its extension, and use of prior information; estimation and testing of econometric models.
Prerequisites: grad st; Econ 734(635)(P) or cons instr.
Last Taught: Fall 2016, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ECON 716 Econometric Methods II
3 cr. Graduate.
Analysis of state and local government expenditures and revenues; demand for urban services, costs of supplying them, and methods of financing them.
Prerequisites: grad st; Econ 301(P).
Current Offerings: http://uwm.edu/schedule

ECON 717 Labor Economics I
3 cr. Graduate.
Human capital investments: determinants of earnings (education, experience, incentives, discrimination, unions, compensating differentials); public sector labor markets; issues of retirement and aging.
Prerequisites: grad st; Econ 701(C).
Last Taught: Fall 2017, Fall 2015, Fall 2014, Spring 2013.
Current Offerings: http://uwm.edu/schedule

ECON 718 Labor Economics II
3 cr. Graduate.
Income distribution and inequality; migration and immigration; fertility, family structure, human capital and labor supply, unemployment and job search; selection bias; specialization and work organization.
Prerequisites: grad st; Econ 701(C).
Current Offerings: http://uwm.edu/schedule

ECON 719 Labor Economics III
3 cr. Graduate.
Economic and behavioral theories of collective bargaining, bargaining structure, impasses and truces, union effects, management goals, terms of the agreement and national policy.
Prerequisites: grad st; Ind Rel 701(R).
Course Rules: May not be substituted for Econ 751 or 752 in meeting the concentration req of the Econ MA Non-thesis option or in preparing for Ph D prelims.
Current Offerings: http://uwm.edu/schedule
ECON 755 Comparative Labor Markets and Employment Relations
3 cr. Graduate.
Labor market institutions, practices and performance. The U.S. is compared with western europe, japan and elsewhere.
Prerequisites: grad st; Econ 210(P) & 415(451)(P) or cons instr.
Course Rules: May not substitute for Econ 751 or 752.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ECON 774 Economic Development - Theory
3 cr. Graduate.
Theories relating to production, distribution, and capital formation in less-developed nations.
Prerequisites: grad st; Econ 301(P) & 302(P).
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ECON 775 Economic Development - Policy
3 cr. Graduate.
Planning, case studies, and empirical analysis of less-developed nations.
Prerequisites: grad st; Econ 301(P) & 302(P).
Current Offerings: http://uwm.edu/schedule

ECON 790 Research Seminar for M.A. Students
3 cr. Graduate.
Basic research methods and guidance in developing a research proposal and writing a formal research paper.
Prerequisites: grad st
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ECON 801 Advanced Microeconomic Theory I
3 cr. Graduate.
Decision-making under risk and over time, general equilibrium and welfare, market failure, and applications, including demand systems, household production, interpersonal economics, and hedonic pricing.
Prerequisites: grad st; Econ 701(P) & 506(P). Econ 606(R).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ECON 802 Advanced Macroeconomic Theory I
3 cr. Graduate.
Money, credit, and governmental operations in aggregative analysis; critical study of some aggregative and analytical systems.
Prerequisites: grad st; Econ 702(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ECON 803 Advanced Microeconomic Theory II
3 cr. Graduate.
Theory of the firm, imperfect competition, game theory, asymmetric information, transaction costs and applications including matching/search, factor markets, contract theory, mechanism design and specialization.
Prerequisites: grad st; Econ 506 (P) & 701(P); Econ 606 (R).
Current Offerings: http://uwm.edu/schedule

ECON 804 Advanced Macroeconomic Theory II
3 cr. Graduate.
New growth theories, new Keynesian theories, role of information in macro models, and financial markets and macro economy.
Prerequisites: grad st; Econ 802(P).
Current Offerings: http://uwm.edu/schedule

ECON 806 Mathematical Economics
3 cr. Graduate.
Applications of dynamic optimization technique to modern economic problems; optimal economic growth, optimal pricing, optimal stabilization policies, etc.
Prerequisites: Econ 706(P).
Current Offerings: http://uwm.edu/schedule

ECON 811 Monetary Theory and Policy
3 cr. Graduate.
Study of money, credit, and liquidity as related to income, employment, and prices. Study of goals and effectiveness of monetary and banking policy.
Prerequisites: grad st; Econ 701(P). Econ 702(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

ECON 831 Econometric Methods II
3 cr. Graduate.
Identification problem, econometric model building, and simultaneous equation techniques such as two- and three-stage least squares and full- and limited-information maximum likelihood methods.
Prerequisites: grad st; Econ 735(P).
Current Offerings: http://uwm.edu/schedule

ECON 871 The Pure Theory of International Trade
3 cr. Graduate.
Examines for both static and growing economies the impact of trade upon relative prices of goods and factors of production.
Prerequisites: grad st; Econ 701(P).
Current Offerings: http://uwm.edu/schedule

ECON 872 Money in the International Economy
3 cr. Graduate.
Examines the theory and measurement of the balance of payments, appropriate policies for internal and external balance, the problems of making international payments and the issue of exchange rate flexibility.
Prerequisites: Econ 702(P) & 455(576)(P).

ECON 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule
ECON 905 Seminar: Banking and Monetary Theory:
3 cr. Graduate.
Consideration of the relationship between monetary policy and short-run fluctuations and long-run economic trends.
Prerequisites: grad st; Econ 831(P) or cons instr.
Course Rules: May be retaken with change in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2013, Spring 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

ECON 915 Seminar: Econometric Methods:
3 cr. Graduate.
Selected advanced topics in econometric methods and their application to current economic problems.
Prerequisites: grad st; Econ 835(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ECON 931 Seminar: Regulated Industries:
3 cr. Graduate.
Research in the field of public utilities and other regulated industries, with emphasis on changing the emerging transportation problems.
Prerequisites: grad st; Econ 701(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ECON 947 Seminar: Public Finance:
3 cr. Graduate.
Advanced study of public finance problems and literature. Research.
Prerequisites: grad st; Econ 701(P) & 702(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ECON 974 Seminar: Economic Development and Growth:
3 cr. Graduate.
Analysis of advanced topics relating to the process of economic development and theory of growth.
Prerequisites: grad st; Econ 774(P) & 775(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ECON 990 Graduate Thesis
1-3 cr. Graduate.
Reserved for research in connection with doctoral thesis.
Prerequisites: grad st; cons major prof.
Course Rules: Retakable as necessary to fulfill thesis requirements.
Current Offerings: http://uwm.edu/schedule

ECON 991 Workshop in Economic Research:
2-3 cr. Graduate.
Individual research and group discussion of selected problems in economic theory and its applications.
Prerequisites: grad st & cons instr.
Course Rules: Retakable with change in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ECON 999 Independent Work
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Adams</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Michigan State University</td>
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</tr>
<tr>
<td>Swarnjit S. Arora</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>State University of New York at Buffalo</td>
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<tr>
<td>Mohsen Bahmani-Oskooee</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
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<tr>
<td>Niloy Bose</td>
<td>Professor</td>
<td>PhD</td>
<td>Virginia Tech</td>
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<tr>
<td>Avik Chakrabarti</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Susan Donohue Davies</td>
<td>Adjunct Assistant Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Scott Drewianka</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
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<tr>
<td>John S. Heywood</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>William L. Holahan</td>
<td>Professor Emeritus</td>
<td>PhD</td>
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<tr>
<td>Sunwoong Kim</td>
<td>Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>N. Kudan Kishor</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Washington</td>
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<tr>
<td>Itziar Lazkano</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Calgary</td>
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<tr>
<td>Tong Hun Lee</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>Vivian Lei</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Purdue University</td>
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<tr>
<td>Markos J. Mamalakis</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of California, Santa Cruz</td>
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<tr>
<td>Matthew McGinty</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>G. Richard Meadows</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Hamid Mohtadi</td>
<td>Professor</td>
<td>PhD</td>
<td>Rutgers University</td>
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<tr>
<td>Antu P. Murshid</td>
<td>Associate Professor</td>
<td>PhD</td>
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<tr>
<td>Rebecca Neumann</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Colorado</td>
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</tbody>
</table>
Economics, BA

Economics is the study of choice and decision-making in the face of scarce resources, both at the individual and group levels. Economists examine tradeoffs between different actions and behaviors; analyze different scenarios such as a change in prices, cultural values, or law; and seek to explain and predict human behavior.

Students often ask what the difference is between Economics and Finance. The areas are interrelated and inform and influence each other. Professionally, there is also crossover, with economists working in financial markets and financial experts working on economic policy. In broad terms, economics focuses on concepts related to overall markets, government policy, and decision-making influences. Finance tends to focus on individual businesses and individual people, including the study of assets and liabilities, and financial statements and reporting.

At UWM, students of economics have access to faculty members who are internationally recognized experts in their field. Focus areas for students to choose from include economic theory, quantitative methods including econometrics, public policy, law and the economy, labor economics, and international economic relations.

Many are surprised to learn about the diverse career paths a major in Economics can lead to. Individuals with strong analytical ability and skill working with data and statistics are in high demand in financial management, accounting, human resources, data management, law, marketing, insurance, and more.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
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<td></td>
<td><strong>Part A</strong></td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
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</table>

Course designated as OWC-B; may be completed through a major-specific course requirement

Quantitative Literacy

<table>
<thead>
<tr>
<th>Part A</th>
</tr>
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<tbody>
<tr>
<td>Select one of the following:</td>
</tr>
<tr>
<td>MATH 103</td>
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<tr>
<td>MATH 105</td>
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<tr>
<td>MATH 108</td>
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<tr>
<td>Or equivalent course</td>
</tr>
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</table>

Part B

Course designated as QL-B; may be completed through a major-specific course requirement

Arts

<table>
<thead>
<tr>
<th>Select 3 credits</th>
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Humanities

<table>
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<tr>
<th>Select 6 credits</th>
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</table>

Social Sciences

<table>
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<tr>
<th>Select 6 credits</th>
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</table>

Natural Sciences

<table>
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<tr>
<th>Select 6 credits (at least two courses including one lab)</th>
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</table>

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

<table>
<thead>
<tr>
<th>Two years (high school) of a single foreign language</th>
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</thead>
<tbody>
<tr>
<td>Two semesters (college) of a single foreign language</td>
</tr>
<tr>
<td>Or equivalent</td>
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</tbody>
</table>

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language).

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

**V. Breadth Requirement**

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses...
from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Economics Major Requirements
To major in economics, students must earn grades of at least C in ECON 103 and ECON 104, attain at least a 2.500 GPA on all credits in the major attempted at UWM, and attain at least a 2.500 GPA on all major credits attempted when any transfer work is included along with the UWM work. The major in economics requires a minimum of 30 credits plus a research requirement including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Electives 1</td>
<td>Select at least one course at the 400 level or above (excluding ECON 415)</td>
<td>3</td>
</tr>
<tr>
<td>Electives 1</td>
<td>Select 12 additional credits in ECON</td>
<td>12</td>
</tr>
</tbody>
</table>

Research Requirement
Select 3 credits (see below)
Total Credits 33

1 At least 15 credits must be in upper-division (300 level and above) economics courses taken in residence at UWM
2 BUS ADM 210 or MTHSTAT 215 may be substituted for ECON 210 and will count in the major GPA.

Research Requirement
All majors in economics must complete an independent research experience by selecting, from the list below, a 400- or 500-level course in which they will write and present a research paper. The contents of the paper and the presentation of the results will be arranged with the faculty member teaching the course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECON 404</td>
<td>Economic Applications of Game Theory</td>
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</tr>
<tr>
<td>ECON 411</td>
<td>Economic Forecasting Methods</td>
<td>3</td>
</tr>
<tr>
<td>ECON 413</td>
<td>Statistics for Economists</td>
<td>3</td>
</tr>
<tr>
<td>ECON 426</td>
<td>Public Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 432</td>
<td>Industrial Organization</td>
<td>3</td>
</tr>
<tr>
<td>ECON 447</td>
<td>Labor Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 448</td>
<td>Economics of Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>ECON 454</td>
<td>International Trade</td>
<td>3</td>
</tr>
<tr>
<td>ECON 455</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>ECON 506</td>
<td>Mathematical Economics I</td>
<td>3</td>
</tr>
</tbody>
</table>

Optional Concentrations
The Department offers three optional concentrations within the major. While completing the major requirements outlined above, students may elect to complete one of the following sets of requirements:

International Economic Relations

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td>3</td>
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<tr>
<td>ECON 453</td>
<td>Economic Development</td>
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<tr>
<td>ECON 454</td>
<td>International Trade</td>
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</tr>
<tr>
<td>ECON 455</td>
<td>International Finance</td>
<td></td>
</tr>
</tbody>
</table>

Quantitative Methods

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 310</td>
<td>Research Methods for Economics</td>
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</tr>
<tr>
<td>ECON 411</td>
<td>Economic Forecasting Methods</td>
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<tr>
<td>ECON 413</td>
<td>Statistics for Economists</td>
<td></td>
</tr>
<tr>
<td>ECON 513</td>
<td>Introduction to Econometrics</td>
<td></td>
</tr>
</tbody>
</table>

Graduate Preparation

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 413</td>
<td>Statistics for Economists</td>
<td></td>
</tr>
<tr>
<td>ECON 506</td>
<td>Mathematical Economics I</td>
<td></td>
</tr>
<tr>
<td>ECON 513</td>
<td>Introduction to Econometrics</td>
<td></td>
</tr>
<tr>
<td>ECON 606</td>
<td>Mathematical Economics II</td>
<td></td>
</tr>
</tbody>
</table>

Additional Economics Modules
For courses that meet the requirements of the following modules:

- General Economics;
- Economic Theory;
- The Economics of Public Policy;
- Strategy, Law, and the Economy; and
- Labor Economics

Please see below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 100</td>
<td>Introductory Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 110</td>
<td>Economics of Personal Finance</td>
<td>1</td>
</tr>
<tr>
<td>ECON 193</td>
<td>First-Year Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ECON 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>
ECON 248  Economics of Discrimination  3
ECON 258  Selected Topics in Economics:  1-3
ECON 289  Internship in Economics, Lower Division  1-6
ECON 297  Study Abroad:  1-12
ECON 299  Ad Hoc:  1-6
ECON 381  Honors Seminar:  3
ECON 458  Selected Topics in Economics:  3
ECON 489  Internship in Economics, Upper Division  1-6
ECON 497  Study Abroad:  1-12
ECON 499  Ad Hoc:  1-6
ECON 697  Organizational Administration Capstone  3
ECON 699  Independent Work  1-3

ECON 301  Intermediate Microeconomics  3
ECON 302  Intermediate Macroeconomics  3
ECON 404  Economic Applications of Game Theory  3
ECON 506  Mathematical Economics I  3
ECON 606  Mathematical Economics II  3

The Economics of Public Policy
ECON 325  Money and Banking  3
ECON 328  Environmental Economics  3
ECON 426  Public Economics  3
ECON 450  Health Economics  3
ECON 525  The Economics of Water  3

Strategy, Law, and the Economy
ECON 231  Analysis of American Industries  3
ECON 333  Economics and Law  3
ECON 335  Economics of Antitrust Laws  3
ECON 432  Industrial Organization  3

Labor Economics
ECON 415  Economics of Employment and Labor Relations  3
ECON 447  Labor Economics  3
ECON 448  Economics of Human Resources  3

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless of their major in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major
Departmental honors are awarded upon graduation to students who achieve a 3.00 GPA on all UWM graded credits attempted, a 3.50 GPA on all credits that count toward the major, and a 3.50 GPA on all credits in advanced-level (numbered 300 and above) courses that count toward the major.

Honors in the College of Letters and Science
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Professor Rebecca Neumann, rneumann@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/economics/undergraduate/
Economics, MA

The Department of Economics offers graduate programs of study designed to prepare students for careers in education and for careers in administrative and research positions in government, industry and labor. The programs are built upon a solid core of training in economic theory and in quantitative analysis, with area concentrations in econometrics, economic growth and development, industrial organization, international economics, labor economics and human resources, mathematical economics, monetary theory and policy, and urban and regional economics.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in economics and one semester of calculus. Alternatively, adequate preparation at the undergraduate level equivalent to two semesters of coursework in intermediate economic theory, one semester of statistics, and one semester of calculus.
2. Submission of scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) General Test or equivalent quantitative courses is recommended. Test of English as a Foreign Language exam is required for applicants whose native language is not English.
3. Two letters of recommendation from persons familiar with applicant’s scholastic achievement and potential.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. Deficiencies are to be made up through the following:

- in economic theory through ECON 301 and ECON 302;
- in statistics through ECON 210; and
- in calculus through MATH 211.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. In Economics the newly admitted master’s student is advised by the Graduate Study advisor.

Credits and Courses

Option A: Thesis Option
Minimum degree requirement is 30 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thesis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of the following:</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

ECON 990  Graduate Thesis

<table>
<thead>
<tr>
<th>Required</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 701</td>
<td>Economic Theory: Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 702</td>
<td>Economic Theory: Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 703</td>
<td>Econometrics</td>
<td>4</td>
</tr>
</tbody>
</table>

Additional Requirements
Select one of the following:

1. One area of concentration
   - ECON 506 Mathematical Economics I
   - ECON 606 Mathematical Economics II

Select 6 additional credits of graduate work
Total Credits 30

The student must select one area of concentration offered by the Department and must take at least two semesters in this concentration in courses numbered 700 or above (except ECON 990, ECON 991 and ECON 999).

Latin American Concentration
A concentration on Latin America is available. A student with previous interest and commitment in Latin American studies, who is able to demonstrate—through examination—good reading ability and fair conversational ability in Spanish or Portuguese, is permitted to select this concentration under Option A. Requirements for this concentration are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thesis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ECON 990  Graduate Thesis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 774</td>
<td>Economic Development - Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 775</td>
<td>Economic Development - Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 3 credits in Interdisciplinary Seminar on Latin America</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select a graduate course in Latin America in some field other than economics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 9 additional credits of graduate work</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 27

Thesis
An acceptable thesis must be written on the student’s area of concentration.

Comprehensive Examination
The student must pass a final oral examination in defense of the thesis.

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

Option B: Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thesis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 701</td>
<td>Economic Theory: Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 702</td>
<td>Economic Theory: Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECON 703</td>
<td>Econometrics</td>
<td>4</td>
</tr>
</tbody>
</table>

1. The student must select one area of concentration offered by the Department and must take at least two semesters in this concentration in courses numbered 700 or above (except ECON 990, ECON 991 and ECON 999).
Economics, Minor

Economics is the study of choice and decision-making in the face of scarce resources, both at the individual and group levels. Economists examine tradeoffs between different actions and behaviors; analyze different scenarios such as a change in prices, cultural values, or law; and seek to explain and predict human behavior.

Students often ask what the difference is between Economics and Finance. The areas are interrelated and inform and influence each other. Professionally, there is also crossover, with economists working in financial markets and financial experts working on economic policy. In broad terms, economics focuses on concepts related to overall markets, government policy, and decision-making influences. Finance tends to focus on individual businesses and individual people, including the study of assets and liabilities, and financial statements and reporting.

At UWM, students of economics have access to faculty members who are internationally recognized experts in their field. Focus areas for students to choose from include economic theory, quantitative methods including econometrics, public policy, law and the economy, labor economics, and international economic relations.

Requirements

The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM, and at least a 2.500 GPA on all minor credits attempted when any transfer work is included along with the UWM work. The minor in economics requires a minimum of 18 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ BUS ADM 210 or MTHSTAT 215 may be substituted for ECON 210 and will count in the minor GPA.

Contact Information

Current Students contact Associate Professor Rebecca Neumann, rneumann@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/economics/undergraduate/

Economics, PhD

The Department of Economics offers graduate programs of study designed to prepare students for careers in education and for careers in administrative and research positions in government, industry and labor. The programs are built upon a solid core of training in economic theory and in quantitative analysis, with area concentrations in econometrics, economic growth and development, industrial organization, international economics, labor economics and human resources, mathematical economics, monetary theory and policy, and urban and regional economics.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program. A master’s degree is not prerequisite for admission to the PhD program in economics.

- An undergraduate major in economics with a grade point average (both overall and in economics) of 3.0 (4.0 scale) and one semester of calculus or adequate preparation at the undergraduate level equivalent to two semesters of coursework in intermediate economic theory, one semester of statistics, and one semester of calculus.
- An applicant having a master’s degree in economics or graduate coursework in economic theory must have a graduate grade point average of at least 3.33 (4.0 scale).
- Submission of scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) General Test and Subject Test or equivalent quantitative courses is recommended. Test of English as a Foreign Language exam is required for applicants whose native language is not English.
- Two letters of recommendation from persons familiar with applicant’s scholastic achievement and potential.

Reaplication

A student who is in the master’s program must formally reapply for admission to Graduate School before continuing toward the PhD. To receive doctoral student status, a student must complete the master’s degree or obtain a waiver of this requirement from the admissions
committee, the graduate study advisor, and the Department Chair. The waiver must be obtained before the student completes 27 credits in the M.A. program.

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. In Economics, the newly admitted PhD student is advised by the Graduate Study advisor.

**Credits and Courses**

Minimum degree requirement is 54 credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. Of the total credits required, a minimum of 42 must be taken in the field of economics.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 801</td>
<td>Advanced Microeconomic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 802</td>
<td>Advanced Macroeconomic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 803</td>
<td>Advanced Microeconomic Theory II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 804</td>
<td>Advanced Macroeconomic Theory II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 12 credits in quantitative theory</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select 15 credits in two areas of concentration</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select 3 credits of research skills as detailed below</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td>Minor Field 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives 2</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 51-54

1. Minor field: 9 to 12 credits in a single department other than Economics; courses planned with a professor in the minor department and the examination, if required, is administered by the minor department.
2. Electives: 9 to 12 credits in courses from any departments, including Economics, but no more than 6 credits in any one department other than Economics; courses are to be planned with the approval of the Graduate Study advisor and no examination is required.

**Research Skill**

Research skill requirements are individually assigned by the graduate study advisor. Research skill requirement is fulfilled through courses in computer science, mathematics, statistics, mathematical economics (700 level or above), or econometrics (700 level or above).

**Residence**

The student must meet minimum Graduate School residence requirements. The PhD student meets the continuous portion of the residence credit requirement by completing 8 to 12 credits in each of two consecutive semesters, including summer sessions. Residence credit is not earned at the master’s level or prior to award of the master’s degree.

**Doctoral Preliminary Examination**

The student must pass doctoral preliminary examinations for formal admission to candidacy for the degree. The examinations are given in sections covering economic theory and the student’s two areas of concentration. Students must take the sections in economic theory first.

Students may attempt any prelim exam twice. Any student failing a prelim exam twice may appeal to the Graduate Faculty for permission to take the exam for a third time if:

1. The student’s request is accompanied by letters of support from at least two members of the faculty and where one of the faculty is a member of the prelim committee awarding the failing grade, and
2. The student is still able to satisfy the time limits outlined below.

(Note: These conditions must be met before an appeal can be considered by the Graduate Faculty. Satisfaction of these conditions in no way obligates the Graduate Faculty to grant any appeal.)

Students may not take the field exams until they have passed both theory exams. A section is also included covering the minor if there is one; this section is administered by the department concerned.

The schedule specifying the time at which these examinations are taken is as follows:

1. A doctoral student with an M.A. in Economics from UWM must attempt both theory prelims at the conclusion of 2 semesters or 12 credits (whichever happens last) and must pass both theory prelims prior to the start of the 5th semester or at the conclusion of 24 credits (whichever happens last).
2. A doctoral student with an M.A. in Economics from another institution must attempt both theory prelims at the conclusion of 3 semesters or 24 credits (whichever happens last) and must pass both theory prelims prior to the beginning of the 6th semester or at the conclusion of 36 credits (whichever happens last).
3. A doctoral student without an M.A. in Economics must attempt both theory prelims at the conclusion of 5 semesters or 36 credits (whichever happens last) and must pass both exams prior to the beginning of the 8th semester or at the conclusion of 48 credits (whichever happens last).

**Dissertation**

The candidate must write a dissertation which demonstrates ability to formulate a research topic and pursue independent and original investigation.

**Dissertation Defense**

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**

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

English studies today offers a wider range of classes, topics, and projects than ever before. You can still explore the classic works of literature and the great authors, to be sure. But now our curriculum also includes film studies and media, rhetoric and professional writing, the digital humanities, critical and cultural theory, and creative writing workshops. Students can focus their studies in these areas and work with our advisors to plan a curriculum that meets their personal and career goals best.

English has gone global as well. Literature in English now comes from all over the world. Many of our courses feature the postcolonial fiction, drama, poetry, and prose from Africa, Asia, the Caribbean and the Americas. Here in the United States the study of literature includes Native American, African American, Latina/o, and Asian American works that introduce students to the rich cultural diversity of contemporary society.

Courses offered in the English curricular area of the Department of English are concerned primarily with the language and literature of English-speaking peoples. They are designed to develop skills in reading and writing and to offer students a variety of approaches to literature, language, and rhetoric. Further, the department seeks to encourage in each student a questioning approach to canon formation and aesthetic criteria, especially through the texts of previously marginalized minority and women writers, in order to gain insight into cultural diversity.

Programs

• English, BA (p. 1253)
• English, MA (p. 1262)
• English, MA/Library and Information Science, MLIS (p. 1264)
• English, Minor (p. 1266)
• English, PhD (p. 1267)
• Professional Writing and Communication, Graduate Certificate (p. 1269)

English Courses

ENGLISH 90 Basic Writing
0 cr. Undergraduate.
Sustained writing and revision to develop fluency in articulating ideas and familiarity with writing conventions. Fourth instructional hr required.
Prerequisites: level 0 on English Placement Test.
Course Rules: May not be taken cr/no cr. Audit not allowed. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Current Offerings: http://uwm.edu/schedule

ENGLISH 95 Fundamentals of Composition
0 cr. Undergraduate.
Critical reading and writing, with an emphasis on the processes of writing and revision. Students produce a portfolio of revised essays.
Prerequisites: level 0 on English Placement Test.
Course Rules: May not be taken cr/no cr. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ENGLISH 100 Introduction to College Writing and Reading
4 cr. Undergraduate.
Critical reading and writing, with emphasis on the processes of writing, revision, and academic conventions. Students produce a portfolio of revised essays.
Prerequisites: level 1 on English Placement Test.
Course Rules: Weekly Writing Center session req’d. May not be taken cr/no cr. Not open to students who have taken English 101.
Current Offerings: http://uwm.edu/schedule

ENGLISH 101 Introduction to College Writing
3 cr. Undergraduate.
Critical reading, writing, and revision, with emphasis on reflective inquiry and academic writing conventions. Students produce a portfolio of revised essays.
Prerequisites: Level 2 on English Placement Test or grade of C or better in English 095.
Course Rules: May not be taken cr/no cr. Not open to students who have taken English 100. ESL 118 counts as a repeat of English 101.
Current Offerings: http://uwm.edu/schedule

ENGLISH 102 College Writing and Research
3 cr. Undergraduate.
Extensive engagement with academic research writing and reflective analysis. Students will produce a portfolio of revised writing.
Prerequisites: level 3 on English Placement Test or grade of C or better in English 100(P) or 101(P) or EAP 101(P) or 118(P).
Course Rules: May not be taken cr/no cr. Counts as repeat of English 112, Honors 102, 112.
General Education Requirements: ENG, OWC-A
Current Offerings: http://uwm.edu/schedule

ENGLISH 105 College Writing Workshop
1 cr. Undergraduate.
Workshop on strategies for revising and editing college writing.
Prerequisites: grade of C or better in English 095(P) or Level 1 on English Placement Test; conc reg in English 101(C).
Course Rules: Credit/no credit only.
Current Offerings: http://uwm.edu/schedule

ENGLISH 111 Entertainment Arts: Film, Television, and the Internet
3 cr. Undergraduate.
History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form.
Prerequisites: none
Course Rules: ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule
ENGLISH 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities through materials from literature, history, and the media, with attention to African-, Asian-, Hispanic-, and Native American experiences.
Prerequisites: none.
Course Rules: none.
General Education Requirements: HU, CD
Current Offerings: http://uwm.edu/schedule

ENGLISH 192 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ENGLISH 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 201 Strategies for Academic Writing
3 cr. Undergraduate.
Intensive practice in expository writing designed to continue development of already proficient writers.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

ENGLISH 202 Writing in the Humanities
3 cr. Undergraduate.
Development of styles and modes of literary and academic discourse in response to essays and literary works touching on a common theme.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Current Offerings: http://uwm.edu/schedule

ENGLISH 205 Business Writing
3 cr. Undergraduate.
Instruction and practice in writing business reports, memos, and letters. Particularly appropriate for students in business and related areas.
Prerequisites: soph st; grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May not be taken cr/no cr.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

ENGLISH 206 Technical Writing
3 cr. Undergraduate.
Instruction and practice in writing technical reports, proposals, and other technical writing forms. Particularly appropriate for students in science, engineering, architecture, and other applied sciences.
Prerequisites: satisfaction of GER English Composition competency req.
Course Rules: May not be taken cr/no cr. Counts as repeat of English 206X.
General Education Requirements: OWCB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 207 Health Science Writing
3 cr. Undergraduate.
Instruction and practice in writing reports and research papers for health science professions. Particularly appropriate for students in health related fields, including pre-medical, dental, etc.
Prerequisites: satisfaction of GER English Composition competency req.
Course Rules: May not be taken cr/no cr.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

ENGLISH 208 Writing and Research
3 cr. Undergraduate.
Extensive practice in gathering information, evaluating sources, interviewing, writing research papers, and bibliographical methods.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Current Offerings: http://uwm.edu/schedule

ENGLISH 209 Language in the United States
3 cr. Undergraduate.
Survey of the languages of the U.S., discussing social and political aspects of language use and issues of interethnic communication.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2012, Summer 2012, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ENGLISH 210 Global Englishes
3 cr. Undergraduate.
Varieties of English spoken around the world; history and spread of English; use of English as a national and international language.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 211 Aspects of the English Language:
3 cr. Undergraduate.
Introductory projects in such areas as social or specialized usages, modern grammars, dialects, English language history, theoretical and practical studies of language in literary forms.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule
ENGLISH 212 Grammar and Usage
3 cr. Undergraduate.
The basic concepts and categories of English grammar, with emphasis on usage and writing problems.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, & may be used to repeat, Classic 213, French 213, German 213, Italian 213, Linguis 213, Polish 213, Russian 213, & Spanish 213.
Last Taught: Spring 2006, Fall 1997.
Current Offerings: http://uwm.edu/schedule

ENGLISH 214 Writing in the Professions:
3 cr. Undergraduate.
Adaptation of writing to situations and requirements of specific professional writing genres, such as criminal justice, government, and environmental writing.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic; no cr limit.
General Education Requirements: OWCB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 215 Introduction to English Studies
3 cr. Undergraduate.
Writing-intensive introduction to multiple forms and contexts of literary and nonliterary texts and discourses in English, in a cultural, historical, and global framework.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: Required for English & secondary education English majors.
General Education Requirements: HU, OWCB
Current Offerings: http://uwm.edu/schedule

ENGLISH 218 Veterans Re-Entry Writing Workshop
2 cr. Undergraduate.
Instruction in a combination of stress reduction and journaling techniques designed to ease readjustment to civilian life, tap into creative capacities, and boost writing skills.
Prerequisites: prior military service or cons instr.
Last Taught: Spring 2012.
Current Offerings: http://uwm.edu/schedule

ENGLISH 219 Introduction to Modern Literature:
3 cr. Undergraduate.
Works in the modern tradition from the 1910’s to the present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max. With 'Backgrounds' subtitle, counts as a repeat of English 225; with 'Modern Developments' subtitle counts as a repeat of English 226.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule
ENGLISH 230 Writing with Style
3 cr. Undergraduate.
Students develop and enhance their expository writing style by reading short essay selections and writing in a variety of rhetorical forms, styles, and modes.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Last Taught: Spring 2014, Fall 2007, Fall 2006, Fall 2005.
Current Offerings: http://uwm.edu/schedule

ENGLISH 233 Introduction to Creative Writing
3 cr. Undergraduate.
An introduction to the writing of poetry and fiction.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: A
Current Offerings: http://uwm.edu/schedule

ENGLISH 234 Writing Fiction: Structure and Technique
3 cr. Undergraduate.
Readings and discussion demonstrating the basic structural and technical elements of modern fiction, with opportunities for practice.
Prerequisites: Satisfaction of OWC-A GER.
Current Offerings: http://uwm.edu/schedule

ENGLISH 235 Writing Poetry: Forms, Styles, Voices
3 cr. Undergraduate.
Readings and discussion demonstrating traditional and contemporary forms, with opportunities for practice.
Prerequisites: Satisfaction of OWC-A GER.
Current Offerings: http://uwm.edu/schedule

ENGLISH 236 Introductory Topics in Creative Writing:
3 cr. Undergraduate.
Instruction and practice in genres other than fiction and poetry.
Prerequisites: English 233(203)(P) or 234(P).
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ENGLISH 240 Rhetoric, Writing, and Culture:
3 cr. Undergraduate.
Major concerns in cultural criticism, including race, gender, class, cultural identity, technology, and ideology; examines how rhetoric, writing, and media influence our thinking about these concerns.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: OWCB, HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 243 Introduction to Literature by Women:
3 cr. Undergraduate.
Ways in which women have expressed their views of women's roles and goals in literature.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 245 The Life, Times, and Work of a Literary Artist:
3 cr. Undergraduate.
A writer in a cultural, historical, and biographical context.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 247 Literature and Human Experience:
3 cr. Undergraduate.
Focus upon the portrayal of a universal theme in literature of the past and present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 248 Literature and Contemporary Life:
3 cr. Undergraduate.
Literary portrayal of the character issues and concerns of the contemporary world as reflected in literature.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Spring 2013, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ENGLISH 250 Fantasy in Literature:
3 cr. Undergraduate.
Forms of fantasy in literature from the medieval period to the present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 251 Fantasy in Literature:
3 cr. Undergraduate.
Selected works of detective fiction by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
ENGLISH 253 Science Fiction:
3 cr. Undergraduate.
Selected works of literary science fiction by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 260 Introduction to Poetry:
3 cr. Undergraduate.
Selected works of poetry by theme or type.
Prerequisites: grade of C or better in English 102(P) or score at level 4 of EPT.
Course Rules: May be retaken w/chg of topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2013, Spring 2010, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ENGLISH 261 Introduction to Short Stories:
3 cr. Undergraduate.
Selected short stories by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2013, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ENGLISH 262 Introduction to Drama:
3 cr. Undergraduate.
Selected plays of the English-speaking theater by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 263 Introduction to the Novel:
3 cr. Undergraduate.
Selected novels from the English-speaking world by theme, type, period, or origin.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg of topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 268 Introduction to Cultural Studies:
3 cr. Undergraduate.
Theories, subject matters, and core texts of the interdisciplinary field of cultural studies.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Fall 2009, Fall 2007, Spring 2005.
Current Offerings: http://uwm.edu/schedule

ENGLISH 269 Literary Forms and Genres:
3 cr. Undergraduate.
A literary form or genre such as essay, satire, tragedy, etc.
Prerequisites: grade of C or better in English 102(P) or score at level 4 of EPT.
Course Rules: May be retaken w/chg of topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 274 Literature and the Other Arts:
3 cr. Undergraduate.
Selections from literary studies in connection with works from the other arts ranging from the Middle Ages to the present.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 275 The Forms of Folk Literature:
3 cr. Undergraduate.
Folk literature as a literary type with emphasis on varying ethnic groups.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 276 Introduction to American Indian Literature:
3 cr. Undergraduate.
Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe or time period.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: AIS 276 & English 276 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU, CD
Current Offerings: http://uwm.edu/schedule

ENGLISH 277 Introduction to Ethnic Minority Literature:
3 cr. Undergraduate.
A survey covering literature by three or more of the following ethnic groups: African American, American Indian, Asian American, U.S. Latino/a, and Caribbean American.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: CD, HU
Last Taught: Fall 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ENGLISH 278 Introduction to World Literatures Written in English:  
3 cr. Undergraduate.  
The literature of a particular region or regions of the English-speaking world.  
Prerequisites: grade of C or better in English 102(P) or score at level 4 of EPT.  
Course Rules: May be retaken w/chg of topic to 9 cr max.  
General Education Requirements: HU  
Last Taught: Spring 2013, Spring 2012, Fall 2010, Fall 2009.  
Current Offerings: http://uwm.edu/schedule  

ENGLISH 279 Introduction to U.S. Latino/a Literature:  
3 cr. Undergraduate.  
Latino/a American literature with a focus on region, genre, theme, or period.  
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.  
Course Rules: May be retaken w/chg in topic to a 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another.  
General Education Requirements: CD, HU  
Current Offerings: http://uwm.edu/schedule  

ENGLISH 280 Introduction to Asian-American Literature:  
3 cr. Undergraduate.  
Asian-American literature with focus on region, genre, theme, or period.  
Prerequisites: grade of C or better in English 102(P) or score at level 4 of EPT.  
Course Rules: May be retaken w/chg of topic to 9 cr max.  
General Education Requirements: CD, HU  
Current Offerings: http://uwm.edu/schedule  

ENGLISH 281 Introduction to African-American Literature:  
3 cr. Undergraduate.  
African-American literature with a focus on region, genre, theme, or period.  
Prerequisites: May be retaken w/chg in topic to 9 cr max. Prereq grad of C or better in English 102(P) or score at level 4 of EPT.  
General Education Requirements: CD, HU  
Current Offerings: http://uwm.edu/schedule  

ENGLISH 285 Modern Irish Language and Literature in Translation  
3 cr. Undergraduate.  
Major works of literature written in Irish Gaelic, eighth century to present day, in bilingual (Irish/English) texts.  
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.  
Course Rules: Celtic 285 & English 285 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

ENGLISH 286 Writing about Film and Television  
3 cr. Undergraduate.  
Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives.  
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.  
Course Rules: English 286 & FilmStd 286 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

ENGLISH 289 Internship in English, Lower Division  
1-6 cr. Undergraduate.  
Application of basic principles of English in a business, organizational, educational, political, or other appropriate setting.  
Prerequisites: satisfaction of GER English Composition competency req; 2.25 gpa; C or better in English 211(P), 202(P), 205(P), 208(P), 233(P), 234(P), 236(P), 240(P), cons supervising faculty member.  
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.  
Current Offerings: http://uwm.edu/schedule  

ENGLISH 290 Introduction to Film Studies  
3 cr. Undergraduate.  
Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking.  
Prerequisites: none.  
Course Rules: English 290 & FilmStd 290 are jointly offered; they count as repeats of one another.  
General Education Requirements: HU  
Current Offerings: http://uwm.edu/schedule  

ENGLISH 291 Introduction to Television Studies  
3 cr. Undergraduate.  
The forms, images, and narratives particular to television.  
Prerequisites: none.  
Course Rules: English 291 & FilmStd 291 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

ENGLISH 292 Classic Dramas in Film:  
1 cr. Undergraduate.  
A sampling of great plays in film versions, with performances by acclaimed actors.  
Prerequisites: none.  
Course Rules: Offered on a cr/no cr basis. May be retaken w/chg in topic to 3 cr max. English 292 & FilmStd 292 are jointly offered; w/same topic, they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule
ENGLISH 293 Literature and Media:
3 cr. Undergraduate.
A study of novels, essays, magazines, newspapers, advertisements, and films in order to disclose similarities and differences in their use of rhetorical strategies.
Prerequisites: soph st.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 293 & FilmStd 293 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 294 Game Culture
3 cr. Undergraduate.
Critical study of games, digital and otherwise; forms, conventions, and practices that inform design and reception of games; place of games in contemporary culture.
Prerequisites: GER OWC-A.
Course Rules: Counts as repeat of English 380 w/same topic. English 294 & FilmStd 294 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 295 Women and Film
3 cr. Undergraduate.
A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture.
Prerequisites: soph st.
Course Rules: English 295 & FilmStd 295 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ENGLISH 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: http://uwm.edu/schedule

ENGLISH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ENGLISH 298 Undergraduate Lower-Division Service Learning
1 cr. Undergraduate.
Faculty-supervised placement of students as community service volunteers.
Prerequisites: conc reg in English 100- or 200-level service learning course.
Course Rules: May be retaken to 3 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ENGLISH 301 Survey of English Literature, Beginnings to 1500
3 cr. Undergraduate.
Writers and literary trends of the Old English and medieval period, with emphasis on their historical, social, and cultural context.
Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

ENGLISH 302 Survey of English Literature, 1500-1660
3 cr. Undergraduate.
Writers and trends of the English literature in the period 1500-1660, with emphasis on historical, social, and cultural context.
Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.
Course Rules: Recom in prep for English 452, 453, 454 & 456.
Current Offerings: http://uwm.edu/schedule

ENGLISH 303 Survey of English Literature, 1660-1798
3 cr. Undergraduate.
Writers and trends in English Literature, 1660-1798, with emphasis on historical, social, and cultural context.
Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

ENGLISH 304 Survey of English Literature, 1798-1900
3 cr. Undergraduate.
Writers and trends in English Literature, 1798-1900, with emphasis on historical, social, and cultural context.
Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
ENGLISH 305 Survey of English Literature: 1900 to the Present
3 cr. Undergraduate.

Writers and trends of English Literature since 1900, with emphasis on historical, social, and cultural context.

Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.

Last Taught: Spring 2017, Spring 2016, Spring 2015, Fall 2013.

Current Offerings: http://uwm.edu/schedule

ENGLISH 306 Survey of Irish Literature
3 cr. Undergraduate.

Irish literature from earliest times through the Literary Renaissance–folklore, saga, bardic poetry, poetry, fiction, and drama of the nineteenth century to the present.

Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.

Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.

Current Offerings: http://uwm.edu/schedule

ENGLISH 307 Survey of American Literature to 1865
3 cr. Undergraduate.

Writers and trends in American Literature before 1865, with emphasis on historical, social, and cultural context.

Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.

Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2010.

Current Offerings: http://uwm.edu/schedule

ENGLISH 308 Survey of American Literature, 1865–1965
3 cr. Undergraduate.

Writers and trends of American Literature, 1865-1965, with emphasis on historical, social, and cultural context.

Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.

Last Taught: Spring 2018, Fall 2014, Spring 2014, Fall 2011.

Current Offerings: http://uwm.edu/schedule

ENGLISH 309 Survey of Contemporary American Literature
3 cr. Undergraduate.

Writers and trends of American Literature after 1965, with emphasis on historical, social, and cultural context.

Prerequisites: soph st; English 215(P); satisfaction of GER English Composition competency req.


Current Offerings: http://uwm.edu/schedule

ENGLISH 310 Writing, Speaking, and Technoscience in the 21st Century
3 cr. Undergraduate.

Theories and practices of communicating about science and technology.

Prerequisites: satisfaction of OWC-A GER or cons instr.

Course Rules: Satisfies OWC-B GER.

General Education Requirements: OWCB, HU


Current Offerings: http://uwm.edu/schedule

ENGLISH 312 Topics in Film Studies:
3 cr. Undergraduate.

Study of stylistic, generic, historical, or theoretical issues in film studies.

Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P).

Course Rules: May be retaken w/chg in topic to 9 cr max. English 312 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.


Current Offerings: http://uwm.edu/schedule

ENGLISH 316 World Cinema:
3 cr. Undergraduate.

National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms.

Prerequisites: jr st or English 290(P); satisfaction of OWC-A.

Course Rules: Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.

Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.

Current Offerings: http://uwm.edu/schedule

ENGLISH 320 Studies in Film Authorship:
3 cr. Undergraduate.

The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star.

Prerequisites: jr st or English 290(P); satisfaction of GER English Composition competency req.

Course Rules: May be retaken w/chg in topic to 9 cr max. English 320 & FilmStd 320 are jointly offered; w/same topic, they count as repeats of one another.


Current Offerings: http://uwm.edu/schedule

ENGLISH 325 The Art of Fiction:
3 cr. Undergraduate/Graduate.

Study of novels or short stories through a unifying theme, set of technical problems, or critical concepts.

Prerequisites: jr st; satisfaction of GER English Composition competency req.

Course Rules: May be retaken w/chg in topic to 6 cr max.

Current Offerings: http://uwm.edu/schedule

ENGLISH 326 The Development of the Novel:
3 cr. Undergraduate/Graduate.

Major artistic, social and intellectual events in the history of the novel from its origins to the present.

Prerequisites: jr st; satisfaction of GER English Composition competency req.

Course Rules: May be retaken w/chg in topic to 6 cr max.

Current Offerings: http://uwm.edu/schedule

ENGLISH 327 The Development of the Short Story
3 cr. Undergraduate.

Major artistic, social and intellectual events in the history of the short story from the nineteenth century to the present.

Prerequisites: jr st; satisfaction of GER English Composition competency req.

Last Taught: Fall 2017, Fall 2016, Summer 2016, Spring 2014.

Current Offerings: http://uwm.edu/schedule
ENGLISH 328 Forms of Experimental Literature:  
3 cr. Undergraduate/Graduate.  
Approaches to forms of literature that stress experimentation, innovation and the radical alteration of existing forms.  
**Prerequisites:** jr st; satisfaction of GER Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**Last Taught:** Spring 2013, Spring 2012, Spring 2011, Fall 2010.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 329 Film and Literature  
3 cr. Undergraduate/Graduate.  
Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode.  
**Prerequisites:** jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.  
**Course Rules:** English 329 & FilmStd 329 are jointly offered; they count as repeats of one another.  
**Last Taught:** Fall 2017, Summer 2017, Fall 2016, Summer 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 332 Gay and Lesbian Literature:  
3 cr. Undergraduate.  
Examines themes in modern literature about sexual identity and community.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**General Education Requirements:** HU  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 341 The Development of Drama:  
3 cr. Undergraduate/Graduate.  
A historical approach, with emphasis on new ideas in the theatre, new techniques, and the evolution of genres.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Fall 2006, Spring 1990, Summer 1986, Spring 1986.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 342 Comedy:  
3 cr. Undergraduate/Graduate.  
Works from the comic tradition with focus on theme, genre, region, or historical development.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**Last Taught:** Spring 2018, Spring 2015, Fall 2005, Summer 2005.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 343 Tragedy:  
3 cr. Undergraduate/Graduate.  
Works from the tragic tradition with focus on theme, genre, region, or historical development.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**Last Taught:** Fall 2008, Fall 2000, Fall 1999, Fall 1998.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 344 Modern Drama:  
3 cr. Undergraduate/Graduate.  
Topics vary. American and English dramatists since 1920, with emphasis on their stage approach, their use of language; and themes of illusion, communication, and identity.  
**Prerequisites:** jr st, satisfaction of GER English Composition competency req; 6 cr in courses approved for hum distr cr.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Fall 2009, Spring 1991, Fall 1989, Summer 1989.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 345 Modern European Drama:  
3 cr. Undergraduate/Graduate.  
Topics may vary.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Fall 2015, Spring 2013, Fall 2012, Fall 2011.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 347 The Modern American Theater:  
3 cr. Undergraduate/Graduate.  
Topics vary.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Fall 2017, Spring 2013, Fall 2012, Spring 2011, Spring 2008.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 348 The Modern Latin American Theater:  
3 cr. Undergraduate/Graduate.  
Topics vary.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Spring 2016, Spring 2011, Spring 2011, Fall 2010.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 351 The Evolution of the American Novel:  
3 cr. Undergraduate/Graduate.  
Study of the various traditions which have shaped the development of the American novel.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Spring 2016, Summer 2011, Spring 2011, Fall 2010.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 352 Modern American Short Fiction:  
3 cr. Undergraduate/Graduate.  
A study of significant short stories by contemporary American short story writers.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Spring 2012.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 353 Modern American Poetry:  
3 cr. Undergraduate/Graduate.  
Study of significant poetical developments in the modern period.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Fall 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 354 Modern American Drama:  
3 cr. Undergraduate/Graduate.  
Study of American drama from 1920 to the present.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Fall 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 358 The Modern Novel:  
3 cr. Undergraduate/Graduate.  
An examination of modern novels through the works of prominent authors.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Fall 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 360 The Art of Poetry:  
3 cr. Undergraduate/Graduate.  
Inquiry into the art of poetry, with readings from a variety of poets.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Spring 2016, Spring 2011, Spring 2011, Fall 2010.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 361 The Development of Poetry:  
3 cr. Undergraduate/Graduate.  
A study of significant intellectual, artistic, or social events in the history of poetry.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Spring 2016, Summer 2011, Spring 2011, Fall 2010.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 363 Medieval Epic and Romance  
3 cr. Undergraduate/Graduate.  
Study of the traditions of medieval English epic and romance through an examination of representative medieval works.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 366 Non-Fiction Prose:  
3 cr. Undergraduate.  
A form of non-fiction such as the essay, biography, etc.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req  
**Course Rules:** May be retaken w/chg of topic to 9 cr max.  
**Last Taught:** Spring 2010.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

ENGLISH 370 Folk Literature:  
3 cr. Undergraduate/Graduate.  
A study of a particular form or forms of folk literature or the folk literature of a designated region or ethnic group.  
**Prerequisites:** jr st; satisfaction of GER English Composition competency req.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**Last Taught:** Fall 2015, Spring 2013, Fall 2012, Fall 2011.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
ENGLISH 372 Survey of American Indian Literature
3 cr. Undergraduate.
A general, representative study of the literature of the American Indian.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: AIS 372 & English 372 are jointly offered; they count as repeats of one another.
General Education Requirements: HU, CD
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 373 Survey of Ethnic Minority Literature
3 cr. Undergraduate.
A general, representative study of the literature of two or more ethnic minority groups.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: HU, CD
Current Offerings: http://uwm.edu/schedule

ENGLISH 374 Survey of U.S. Latino/a Literature
3 cr. Undergraduate.
A general, representative study of U.S. Latino/a literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: English 374 & Latino 374 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Last Taught: Fall 2005.
Current Offerings: http://uwm.edu/schedule

ENGLISH 375 Survey of Asian American Literature
3 cr. Undergraduate.
A general, representative study of Asian-American literature written since 1930.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

ENGLISH 376 Survey of African-American Literature to 1930
3 cr. Undergraduate.
A general, representative study of African-American literature before 1930.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD
Last Taught: Fall 2011, UWinteriM 2009.
Current Offerings: http://uwm.edu/schedule

ENGLISH 377 Survey of African-American Literature, 1930 to the Present
3 cr. Undergraduate.
A general, representative study of African-American literature written since 1930.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

ENGLISH 378 Survey of Current Literary and Cultural Theory
3 cr. Undergraduate.
A general, representative study of current critical approaches to literary and cultural studies, including basic terminology and concrete application.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

ENGLISH 380 Media and Society
3 cr. Undergraduate/Graduate.
An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary.
Prerequisites: jr st; English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2017, Spring 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 381 World Literatures Written in English
3 cr. Undergraduate.
A general, representative study of the literature of an area of the English-speaking world, e.g. Canada, Australia, etc.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 381 & FilmStd 381 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 383 Cinema and Genre
3 cr. Undergraduate/Graduate.
Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: May be retaken w/chg in topic to 9 cr max. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 388 Survey of Current Literary and Cultural Theory
3 cr. Undergraduate.
A general, representative study of current critical approaches to literary and cultural studies, including basic terminology and concrete application.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

ENGLISH 390 Classical Film Criticism and Theory
3 cr. Undergraduate.
Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing.
Prerequisites: jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.
Course Rules: English 390 & FilmStd 390 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Code</th>
<th>Description</th>
<th>Credits</th>
<th>Requirement</th>
<th>Prerequisites</th>
<th>Course Rules</th>
<th>Last Taught</th>
<th>Current Offerings</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 391 Television Criticism and Theory</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.</td>
<td>English 391 &amp; FilmStd 391 are jointly offered; they count as repeats of one another.</td>
<td>May be retaken to 9 cr max.</td>
<td>Spring 2018, Fall 2016, Fall 2015, Spring 2008.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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<tr>
<td>ENGLISH 393 Entertainment Industries</td>
<td>3 cr. Undergraduate.</td>
<td>In-depth look at contemporary media industries both in the U.S. and globally. Emphasis on changing content, production and viewing practices.</td>
<td>3 cr. Undergraduate.</td>
<td>Jr st; satisfaction of OWC-A; English 290(P), English 291(P), or cons instr.</td>
<td>English 393 &amp; FilmStd 393 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/change in topic to 9 cr max.</td>
<td>Spring 2018, Fall 2017, Fall 2016, Spring 2016.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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<td>ENGLISH 394 Theories of Mass Culture</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>A survey of theories of mass culture relative to film from the late 19th century to the present.</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.</td>
<td>English 394 &amp; FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another.</td>
<td>May be retaken w/chg in topic to 9 cr max.</td>
<td>Spring 2018, Spring 2016, Fall 2008, Fall 2007.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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<tr>
<td>ENGLISH 400 Introduction to English Linguistics</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Application of linguistic theory and techniques to modern English. English/Linguis 400 required of all English majors and minors in School of Education.</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Jr st; satisfaction of GER English Composition competency req.</td>
<td>Jointly-offered w/ &amp; counts as repeat of Linguis 400.</td>
<td>Spring 2018, Fall 2016, Spring 2016, Fall 2015.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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<tr>
<td>ENGLISH 402 Theories of Language and Literature</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Various topics involving some theoretical aspect(s) of language and literature.</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Jr st; satisfaction of GER English Composition competency req; an intro course in lingu (e.g. English/Linguis 400, English 401, or Linguis 350).</td>
<td>May be retaken w/chg in topic to 6 cr max.</td>
<td>Spring 2010, Fall 2009, Spring 2009, Fall 2007.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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<tr>
<td>ENGLISH 404 Language, Power, and Identity</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>The use of distinctive language varieties to construct identity and maintain power relations within a society.</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Jr st; satisfaction of GER English Composition competency req.</td>
<td>May be retaken w/chg in topic to 6 cr max.</td>
<td>Fall 2017, Fall 2016, Fall 2015, Summer 2015.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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<td>ENGLISH 414 Special Topics in Creative Writing</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Readings, discussion and assigned writing in specialized areas of creative writing.</td>
<td>3 cr. Undergraduate/Graduate.</td>
<td>Jr st; satisfaction of GER English Composition competency req; English 233(P), 234(P), 235(P), or 236(P); or grad st.</td>
<td>May be retaken w/chg in topic to 9 cr max. May not be retaken for major cr.</td>
<td>Spring 2018, Fall 2017, Fall 2016, Spring 2016.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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</tbody>
</table>
ENGLISH 415 Fiction Workshop
3 cr. Undergraduate.
Classroom analysis and discussion of student writing. Content varies.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 233(P) or 234(P).
Course Rules: May be retaken to 6 cr max. Students may not enroll concurrently in a second section of English 415 or in English 414, 416, 615, or 616.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 416 Poetry Workshop
3 cr. Undergraduate.
Classroom analysis and discussion of student poetry. Content varies.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 233(P) or 234(P).
Course Rules: May be retaken to 6 cr max. Students may not enroll concurrently in a second section of English 416 or in English 414, 415, 615, or 616.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 417 Readings for Writers:
3 cr. Undergraduate.
A literature course exploring literary traditions, formal or aesthetic problems of interest to creative writers.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 233(203)(P), 234(P), 235(P), or 236(204)(P).
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ENGLISH 418 Literary Journal Production
3 cr. Undergraduate.
Develop a working understanding of the editorial, design, production, and promotional processes at the heart of successful literary and arts journals.
Prerequisites: jr st; satisfaction of OWC-A; English 233(P), 234(P), 235(P), or 236(P).
Course Rules: Counts as repeat of English 414 w/same topic.
Current Offerings: http://uwm.edu/schedule

ENGLISH 425 Advanced Business Writing
3 cr. Undergraduate.
Advanced strategies in business writing. Special focus on primary research, rhetorical and contextual analysis, problem-solving, collaboration, and persuasive writing.
Prerequisites: jr st; English 205(P).
Course Rules: Not open to students w/cr in English 430(ER).
Current Offerings: http://uwm.edu/schedule

ENGLISH 426 Professional and Technical Communications Research
3 cr. Undergraduate.
Research (e.g., observations, interviews, surveys, focus groups, card-sorting, usability testing) used by workplace communicators to resolve problems and ensure production of quality, user-based documentation products.
Prerequisites: jr st or cons instr.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 427 Writing for Nonprofits
3 cr. Undergraduate/Graduate.
Persuasive writing of advocacy genres, such as reports, letters, websites, and social media, produced by nonprofit organizations. Focus on theory, practice, collaboration, and service learning.
Prerequisites: jr st.
Course Rules: No cr for students w/cr in English 431 w/same topic.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ENGLISH 428 Strategic Writing for Organizations
3 cr. Undergraduate.
Analysis and creation of written responses to a wide variety of organization issues, exigencies, and crises.
Prerequisites: jr st; satisfaction of GER English Composition competency req
Course Rules: Counts as repeat of English 428X.
Current Offerings: http://uwm.edu/schedule

ENGLISH 429 Technical Communications and Professional Leadership
3 cr. Undergraduate.
Technical writing and communication concepts for understanding leadership and problem-solving in organizations.
Prerequisites: jr st; satisfaction of GER English Composition competency req
Course Rules: Counts as repeat of English 429X.
Current Offerings: http://uwm.edu/schedule

ENGLISH 430 Advanced Writing Workshop
3 cr. Undergraduate/Graduate.
A tutorial course in advanced exposition. Individual assignments and conferences. Enrollment limited to 12 students.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: OWCB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 431 Topics in Advanced Communications:
3 cr. Undergraduate/Graduate.
Seminar in the history, theory, or practice of professional, technical, medical, or science communications.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: OWCB
Last Taught: Fall 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ENGLISH 432 The Rhetoric of Argument
3 cr. Undergraduate.
Analytical survey of rhetorical methods and forms in argumentative discourse, the role of audience in argumentation, and 'fields' of argument.
Prerequisites: jr st; satisfaction of GER English Composition competency req; grade of C or better in English 102(P), 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), or 240(P).
Current Offerings: http://uwm.edu/schedule
ENGLISH 433 Creative Nonfiction for Publication
3 cr. Undergraduate/Graduate.
Writing in a variety of creative nonfiction formats, using literary techniques. Preparation of articles for submission to magazines, newspapers, newsletters, and educational publications.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ENGLISH 434 Editing and Publishing
3 cr. Undergraduate/Graduate.
Training and practice in editorial procedures; preparation of fiction/nonfiction manuscripts for book or journal publication; editorial rewriting; editing; copyediting; proofreading; fundamentals of layout/design.
Prerequisites: jr st; satisfaction of GER English Composition competency req; 6 cr in English 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), 233(P), 234(P), 235(P), 236(P), 240(P), 414(P), 415(P), 416(P), 430(P), 431(P), 432(P), 433(P), 435(P), 436(P), 437(P), 615(P), or 616(P).
Current Offerings: http://uwm.edu/schedule

ENGLISH 435 Rhetoric and Professional Writing
3 cr. Undergraduate.
Theories and practices of rhetoric and professional writing with attention to business, technical, and community contexts.
Prerequisites: English 205(P), 206(P), 207(P), or 310(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 436 Technical Documentation
3 cr. Undergraduate/Graduate.
Theory, methods, and practice in writing clear, concise technical instructions; audience analysis, customer requirements, information architecture, training materials, web projects, and emerging technology discussion topics.
Prerequisites: jr st; English 206(P) & 435(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ENGLISH 437 Project Management for Professional Writers
3 cr. Undergraduate/Graduate.
Major stages of the writing process in workplace contexts: research, analysis, project planning and management, document design, usability testing, and revision.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 205(P), 206(P), or cons instr.
Course Rules: Counts as repeat of English 437X.
Current Offerings: http://uwm.edu/schedule

ENGLISH 438 Advanced Research Writing
3 cr. Undergraduate/Graduate.
Intensive instructions in methods and writing for research papers: audience analysis, bibliographic methods, computer searches, interpretation of data, style guides, abstracts and summaries and the publication process.
Prerequisites: jr st; English 208(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ENGLISH 439 Information Design
3 cr. Undergraduate/Graduate.
Development of technical communication projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication.
Prerequisites: jr st; English 205(P), 206(P), or 207(P), or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 440 Introduction to Peer Tutoring and Practice
3 cr. Undergraduate/Graduate.
Students explore their own writing practices in light of rhetorical theory and learn to tutor others.
Prerequisites: jr st; satisfaction of GER English Composition competency req, & English 201(P), 202(P), 205(P), 206(P), 207(P), or 233(P) w/grade of B- or better or cons instr; or grad st.
Current Offerings: http://uwm.edu/schedule

ENGLISH 441 Advanced Peer Tutoring Theory and Practice
3 cr. Undergraduate/Graduate.
Students will examine various theories of literacy and learning, applying these theories to peer tutoring practice and testing their sufficiency through case-study research.
Prerequisites: English 440(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ENGLISH 442 Writing Center Tutoring Practicum
1 cr. Undergraduate/Graduate.
For prospective tutors, a foundation of concentrated study and practice to begin tutoring in UWM's Writing Center.
Prerequisites: jr st; cons instr.
Last Taught: Fall 2013, Fall 2012, Fall 2010, Spring 2010.
Current Offerings: http://uwm.edu/schedule

ENGLISH 443 Grant Writing
3 cr. Undergraduate/Graduate.
Theory, methods, and practice in writing clear, concise grant proposals and related documents; audience analysis, rhetorical approaches, research methods, and online grantsseeking.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Counts as repeat of English 431 w/same topic. Req’d service learning component.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ENGLISH 444 Technical Editing
3 cr. Undergraduate/Graduate.
Theories, methods, and practice in editing professional and technical documents; grammar and usage; copyediting and comprehensive editing; editor-writer relationship; rhetorical, social, and audience analysis.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Counts as repeat of English 431 w/same topic.
Current Offerings: http://uwm.edu/schedule
ENGLISH 445 The Composing Process:
3 cr. Undergraduate/Graduate.
Issues in composition studies, such as the theory and practice of writing, evaluation and assessment, and collaborative learning.
Prerequisites: jr st; satisfaction of GER English Composition competency req. or cons instr; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max for undergrads or 6 cr max for grads.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 446 Global Business Communications
3 cr. Undergraduate.
Instruction and practice in business writing in the global context. Particularly appropriate for students in business and international studies.
Prerequisites: jr st; Satisfaction of OWC-A.
Course Rules: May not be taken cr/no cr. Counts as repeat of English 214 or 431 w/same topic.
Current Offerings: http://uwm.edu/schedule

ENGLISH 448 Technical Communications Theory and Practice
3 cr. Undergraduate.
Orientation to the technical communications field through service learning experience in which students write for organizations. Application of technical communications theory to practice.
Prerequisites: jr st; completion of GER English Composition competency req; conc reg in English 398(C).
Course Rules: Service Learning course.
Current Offerings: http://uwm.edu/schedule

ENGLISH 449 Internship in the Humanities
1-4 cr. Undergraduate.
Experience in a professional setting that enables students to apply course work and skills and to gain experience toward career goals.
Prerequisites: jr st; satisfaction of OWC-A; C or better GPA so far in the student's major.
Course Rules: May be retaken to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 451 Chaucer
3 cr. Undergraduate/Graduate.
Linguistic and intellectual traditions exemplified in Chaucer's poetry.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

ENGLISH 452 Shakespeare
3 cr. Undergraduate/Graduate.
Works representing Shakespeare's career, selected from comedies, tragedies, histories, and poems.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be used as a repeat of 453 for students who have not taken English 452 previously.
Last Taught: Spring 2018, Spring 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ENGLISH 454 Milton
3 cr. Undergraduate/Graduate.
Milton's English poetry and selections from his prose.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Fall 2015, Spring 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ENGLISH 455 Writers in Drama:
3 cr. Undergraduate/Graduate.
A significant dramatist or a combination of playwrights.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 456 Writers in English Literature, 1500-1660:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 457 Writers in English Literature, 1660-1798:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 458 Writers in English Literature, 1798-1900:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 459 Writers in English Literature, 1900 to the Present:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 460 Writers in American Literature, 1500-1900:
3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
ENGLISH 461 Writers in American Literature, 1900 to the Present: 3 cr. Undergraduate/Graduate.
A significant literary figure or figures in the context of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Fall 2013, Summer 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

ENGLISH 463 Writers in African-American Literature: 3 cr. Undergraduate/Graduate.
A significant figure or figures in African-American literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 465 Women Writers: 3 cr. Undergraduate/Graduate.
One or more significant women writers.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 497 Study Abroad: 1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work begins, content, and credits are determined.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ENGLISH 499 Ad Hoc: 1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: jr st; satisfaction of GER English Composition competency req. add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ENGLISH 500 Studies in Medieval and Early Modern Literature: 3 cr. Undergraduate/Graduate.
Major genres, themes, and figures of the Middle Ages through a reading of representative works.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 501 Studies in Literature, 1500-1660: 3 cr. Undergraduate/Graduate.
Critical study of major genres, themes, figures, tenets, aspects, influences and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Spring 2011, Fall 1998, Fall 1988.
Current Offerings: http://uwm.edu/schedule

ENGLISH 504 Studies in Literature, 1660-1800: 3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 505 Studies in Literature, 1800-1900: 3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 507 Studies in Literature, 1900 to the Present: 3 cr. Undergraduate/Graduate.
Major genres, themes, figures and trends in the literature of the period.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 514 Literature in Context: 3 cr. Undergraduate.
Critical study of literary works in philosophical, social, scientific, or theological context.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 515 Literature and the Other Arts: 3 cr. Undergraduate/Graduate.
Critical study of literary works in combination with works from the other arts.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg of topic to 9 cr max.
Last Taught: Spring 2017, Fall 2015, Spring 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule
ENGLISH 517 Studies in African-American Literature:  
3 cr. Undergraduate/Graduate.  
Major genres, themes, figures and trends in African-American literature.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
General Education Requirements: CD  
Current Offerings: http://uwm.edu/schedule

ENGLISH 518 Studies in Irish Literature:  
3 cr. Undergraduate/Graduate.  
Major genres, themes, figures and trends in Irish literature.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Current Offerings: http://uwm.edu/schedule

ENGLISH 520 Studies in American Indian Literature:  
3 cr. Undergraduate.  
Critical study of themes, figures, aspects, trends, etc., in American Indian literature.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg of topic to 9 cr max.  
General Education Requirements: CD  
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

ENGLISH 521 Studies in Ethnic Minority Literature:  
3 cr. Undergraduate.  
Critical study of themes, figures, aspects, trends, etc., in ethnic-American literature.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg of topic to 9 cr max.  
General Education Requirements: CD  
Current Offerings: http://uwm.edu/schedule

ENGLISH 522 Studies in World Literature Written in English:  
3 cr. Undergraduate.  
Critical study of themes, figures, aspects, trends, etc., in the literature of a particular region of the English-speaking world.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg of topic to 9 cr max.  
Last Taught: Fall 2009.  
Current Offerings: http://uwm.edu/schedule

ENGLISH 523 Studies in U.S. Latino/a Literature:  
3 cr. Undergraduate.  
Critical study of themes, figures, aspects, trends, etc., in U.S. Latino/a literature.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg in topic to 9 cr max. English 523 & Latino 523 are jointly offered; they count as repeats of one another.  
General Education Requirements: CD  
Current Offerings: http://uwm.edu/schedule

ENGLISH 524 Studies in Asian-American Literature:  
3 cr. Undergraduate.  
Critical study of themes, figures, aspects, trends, etc., in Asian-American literature.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg of topic to 9 cr max.  
General Education Requirements: CD  
Current Offerings: http://uwm.edu/schedule

ENGLISH 525 American Indian Literature, Culture, and Creative Arts  
3 cr. Undergraduate/Graduate.  
Critical methods in understanding indigenous literature, cultures, and creative arts; uses of arts in indigenous cultures; how arts influence people's views of indigenous peoples.  
Prerequisites: jr st; completion of GER English Composition competency req.  
Course Rules: AIS 525 & English 525 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule

ENGLISH 530 Studies in Shakespeare:  
3 cr. Undergraduate.  
An examination of a particular aspect of Shakespeare's literary and dramatic achievements, this course will focus on a specific genre, technique or prevailing theme.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
Last Taught: Fall 2017, Fall 2016, Fall 2014, Spring 2012.  
Current Offerings: http://uwm.edu/schedule

ENGLISH 545 Studies in the History of Literary Criticism:  
3 cr. Undergraduate.  
An examination of a particular aspect of Shakespeare's literary and dramatic achievements, this course will focus on a specific genre, technique or prevailing theme.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Current Offerings: http://uwm.edu/schedule

ENGLISH 547 Studies in Theory and Criticism:  
3 cr. Undergraduate/Graduate.  
Topics, trends, or approaches in theory and criticism.  
Prerequisites: jr st; satisfaction of GER English Composition competency req.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2016, Fall 2015, Spring 2015, Spring 2010.  
Current Offerings: http://uwm.edu/schedule
ENGLISH 565 Introduction to Adult/University Level TESOL
3 cr. Undergraduate/Graduate.
Overview of the various approaches to teaching English as a second language (ESL) to adult/university-level learners.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Jointly-offered w/ & counts as repeat of Linguis 565(426). Does not satisfy requirements in School of Educ.
Last Taught: Spring 2014, Fall 2012, Fall 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

ENGLISH 567 Materials for ESL Instruction
3 cr. Undergraduate/Graduate.
Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 567 & Linguis 567 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 569 Practicum in Adult/University TESOL
3 cr. Undergraduate/Graduate.
A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program.
Prerequisites: jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 569 & Linguis 569 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 611 The Writer and the Current Literary Scene
3 cr. Undergraduate/Graduate.
Recent developments in the theory and techniques of contemporary fiction or nonfiction. Especially designed for creative writing students.
Prerequisites: sr st, satisfaction of GER English Composition competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ENGLISH 612 Poetry and the Creative Process
3 cr. Undergraduate/Graduate.
The origin and development of poetic ideas and techniques. Designed especially for creative writing students.
Prerequisites: sr st, satisfaction of GER English Composition competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.
Last Taught: Fall 2017, Spring 2010, Fall 2007, Fall 2003.
Current Offerings: http://uwm.edu/schedule

ENGLISH 615 Advanced Workshop in Fiction
3 cr. Undergraduate/Graduate.
Intensive workshop critiques of student writing. Content varies.
Prerequisites: sr st, English 415(P), one of second section of English 415(P) or English 414(P) or 416(P), satisfaction of English composition competency; or grad st.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 616 Advanced Workshop in Poetry
3 cr. Undergraduate/Graduate.
Intensive workshop critiques of student writing. Content varies.
Prerequisites: sr st, 3 cr in English 416(P), one of second section of English 416(P) or English 414(P) or 415(P), & cons instr based on writing sample; or grad st.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 620 Seminar in the Art of Literature
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of English literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 621 Seminar in the Literature of England
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of English literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 622 Seminar in Irish Literature
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of Irish literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2015, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ENGLISH 623 Seminar in American Literature
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of American literature.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2013, Spring 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule
ENGLISH 624 Seminar in Modern Literature:
3 cr. Undergraduate/Graduate.
Focus upon specific themes, critical or aesthetic issues, or significant
innovations in modern literature, viewed in a cross-cultural or
contemporary context.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit courses at the 300-level or above; or
grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 625 Seminar in Literary History:
3 cr. Undergraduate/Graduate.
An intensive study of literature within its historical dimension, stressing
the goals and methods of historical criticism and research in connection
with specific periods, topics or traditions.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit courses at the 300-level or above; or
grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 626 Seminar in Critical Theory:
3 cr. Undergraduate/Graduate.
An investigation into one or more critical theories and their contribution
to the study of literature.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit courses at the 300-level or above; or
grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2016, Fall 2010, Fall 2009, Spring 1998.
Current Offerings: http://uwm.edu/schedule

ENGLISH 627 Seminar in Literature and Culture:
3 cr. Undergraduate/Graduate.
Intensive study of literature within its cultural context, stressing goals
and methods of cultural criticism and research in connection with
specific issues or topics.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit courses at the 300-level or above; or
grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 628 Seminar in Literature by Women:
3 cr. Undergraduate/Graduate.
Focus on major writers or themes, or on a body of work that represents a
variety of perspectives on gender issues.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit courses at the 300-level or above; or
grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2015, Fall 2014, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ENGLISH 629 Seminar in Literature and Sexuality:
3 cr. Undergraduate/Graduate.
Intensive study of the relationship between literature and human
sexuality, focusing on particular periods, topics, or critical and aesthetic
issues.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit courses at the 300-level or above; or
grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2015, Spring 2010.
Current Offerings: http://uwm.edu/schedule

ENGLISH 630 Seminar in Literature and the Other Arts:
3 cr. Undergraduate/Graduate.
Selections from literature in connection with works from the other arts
ranging from the Middle Ages to the present, stressing the importance of
an inter-arts perspective.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit courses at the 300-level or above; or
grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2005.
Current Offerings: http://uwm.edu/schedule

ENGLISH 631 Seminar in African-American Literature:
3 cr. Undergraduate/Graduate.
Focus upon major writers or themes, or on a body of work that represents
a variety of perspectives on African-American experience.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 632 Seminar in American Indian Literature:
3 cr. Undergraduate/Graduate.
Focus on major forms, prominent themes, or tribal traditions in the
literature of the American Indian.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit at the 300-level or above; or grad st.
Course Rules: AIS 632 & English 632 are jointly offered; w/same topic,
they count as repeats of one another. May be retaken w/chg in topic to 6
or max.
Last Taught: Fall 2016, Spring 2015, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ENGLISH 633 Seminar in Rhetoric and Writing:
3 cr. Undergraduate/Graduate.
Examination of a topic in rhetorical theory and its intersections with
related fields such as cultural studies, literary criticism, literacy theory, or
composition studies.
Prerequisites: sr st, satisfaction of GER English Composition competency
req, 9 cr English and/or CompLit courses at the 300-level or above; or
grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Satisfies L&S
Seminar req.
Current Offerings: http://uwm.edu/schedule
ENGLISH 634 Seminar in English Language Studies:
3 cr. Undergraduate/Graduate.
Examination of a topic in the study of the English language, providing an opportunity to investigate an issue in language studies in depth.
Prerequisites: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 685 Honors Seminar:
3 cr. Undergraduate.
Investigation in depth of a period, figure, theme, or genre in English or American literature.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 699 Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of an English faculty or instructional academic staff member. Student must submit a study proposal. For further information, consult assistant chair/undergraduate program coord.
Prerequisites: jr st; satisfaction of GER English Composition competency req; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 700 Teaching Writing Practicum
1 cr. Graduate.
One-hour weekly practicum for new GTAs teaching first-year composition.
Prerequisites: grad st; cons instr
Current Offerings: http://uwm.edu/schedule

ENGLISH 701 Writing Pedagogies
3 cr. Graduate.
Theories and practices of college composition pedagogy.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 702 English Graduate Institute:
3 cr. Graduate.
A multisection modular summer course in three tracks: literature, english language, and composition. Six three-week sections are offered.
Prerequisites: grad st.
Course Rules: Students may enrol for a max of 2 sections each summer. Retakable w/chg in topic to 12 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 703 Introduction to Graduate Studies in Literature
1 cr. Graduate.
Orientation to best practices, scholarly work, and current debates in primary fields of research in the discipline of literature and cultural theory.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 704 Teaching Creative Writing
3 cr. Graduate.
Approaches to the teaching of creative writing at elementary, high school or college levels.
Prerequisites: grad st.
Course Rules: Consult instr to determine emphasis & range.
Current Offerings: http://uwm.edu/schedule

ENGLISH 705 Public Rhetorics and Community Engagement Colloquium
1 cr. Graduate.
Colloquium in public rhetorics, professional writing, and community engagement. Investigation of disciplinary foundations and professional concerns in public rhetorics, professional writing, and community engagement.
Prerequisites: grad st or cons instr.
Course Rules: Retakable for credit.
Current Offerings: http://uwm.edu/schedule

ENGLISH 706 Seminar in Professional Writing Theory and Pedagogy
3 cr. Graduate.
Theory and application of various approaches to teaching technical and business writing on the college and university level.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Spring 2014, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ENGLISH 707 Writing for Business Management
2-3 cr. Graduate.
Theory and practice of business writing: advanced techniques of audience analysis, organization, persuasion, and revision for clarity, in writing reports, memos, letters, and journal articles.
Prerequisites: grad st in school of business administration or cons instr.
Current Offerings: http://uwm.edu/schedule

ENGLISH 708 Advanced Professional Writing
3 cr. Graduate.
Seminar on the theory and development of students’ professional approaches to writing, research on professional writing genres, and intensive analysis and editorial revisions of documents.
Prerequisites: grad st.
Course Rules: Not open to students with grad cr in English 435(ER).
Last Taught: Spring 2010, Fall 2008, Fall 2006, Fall 2005.
Current Offerings: http://uwm.edu/schedule

ENGLISH 709 Rhetoric, Writing, and Information Technology
3 cr. Graduate.
Seminar on theory and research concerning audiences and information architecture for on-line discourse, instructional design, e-learning, documentation systems, hypertext, mark-up languages, cultural factors, and Web site development.
Prerequisites: grad st.
Course Rules: Not open to students with grad cr in English 436(ER).
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule
ENGLISH 710 Advanced Project Management for Professional Writers
3 cr. Graduate.
Seminar on the theoretical issues, empirical findings, and advanced strategies for project management; research, task analysis, planning, collaboration, problem solving, document design, usability testing and quality evaluation.
Prerequisites: grad st.
Course Rules: Not open to students w/ grad cr in English 437(ER).
Current Offerings: http://uwm.edu/schedule

ENGLISH 711 Topics in Professional Writing:
3 cr. Graduate.
Special topics seminar in the history, theory, pedagogy, or practice of professional writing. Special focus on public and workplace literacy.
Prerequisites: grad st.
Course Rules: Retakable w/ chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 712 Theories in Public Rhetorics and Community Engagement
3 cr. Graduate.
Seminar on the major theoretical perspectives influencing the field of public rhetorics and community engagement.
Prerequisites: grad st.
Last Taught: Fall 2015, Fall 2013, Fall 2009, Fall 2007.
Current Offerings: http://uwm.edu/schedule

ENGLISH 713 Qualitative Research in Writing and Literacy
3 cr. Graduate.
Seminar on the issues and practice of qualitative research as it applies to areas of inquiry related to writing and literacy.
Prerequisites: grad st.
Last Taught: Spring 2017, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ENGLISH 714 Usability Studies
3 cr. Graduate.
Seminar on history and theory of usability studies and advanced practice in usability assessment and testing.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ENGLISH 715 Narrative Craft and Theory:
3 cr. Graduate.
Analysis of selected prose narratives with emphasis on technical, generic, and aesthetic features.
Prerequisites: grad st or cons coord of Creative Writing.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 716 Poetic Craft and Theory:
3 cr. Graduate.
Analysis of selected poems with emphasis on technical, generic, and aesthetic features.
Prerequisites: grad st or cons coord of creative writing.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 718 Directed Writing in Poetry
3 cr. Graduate.
Advanced tutorials with seminar component. Content varies.
Prerequisites: grad st & cons instr.
Course Rules: Register with listed instructor(s) only. May be retaken up to 6 cr.
Last Taught: Fall 2007, Fall 2001, Fall 1999, Fall 1998.
Current Offerings: http://uwm.edu/schedule

ENGLISH 720 Modern Literary Theory
3 cr. Graduate.
A graduate-level introduction to the major critical and theoretical perspectives of the 20th century.
Prerequisites: grad st.
Last Taught: Fall 2017, Spring 2016, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ENGLISH 737 Literature and Aesthetics
3 cr. Graduate.
A graduate-level introduction to the major aesthetic philosophies and theories of the western tradition, with emphasis on their relevance to modern criticism and theory.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ENGLISH 738 Theories of Language, Literature, or Composition:
3 cr. Graduate.
Introduction to scholarship in theoretical or methodological approaches to language, literature, or composition.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 740 Approaches to the Modern I
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped multiple approaches to the modern across the academy.
Prerequisites: grad st.
Course Rules: English 740, Hist 740, & MALLT 740 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Fall 2013, Fall 2011, Fall 2001.
Current Offerings: http://uwm.edu/schedule

ENGLISH 741 Approaches to the Modern II
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped approaches to the modern across periods.
Prerequisites: grad st.
Course Rules: English 741, Hist 741 & MALLT 741 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Spring 2014, Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule
ENGLISH 742 Media Culture
3 cr. Graduate.
A graduate level introduction to media culture, with an emphasis on forms and theories of media culture from the mid-19th century to the present.
Prerequisites: grad st.
Course Rules: English 742 & FilmStd 742 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2014, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

ENGLISH 743 Film Studies:
3 cr. Graduate.
A graduate-level introduction to film studies, including methods of film analysis and approaches to the history of film.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 743 & FilmStd 743 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2016, Spring 2014, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ENGLISH 749 Advanced Internship in Writing and Community Engagement
1-4 cr. Graduate.
Practicum in writing and community engagement enabling students to develop new skills and credentials while learning how best to test theory through practice and apply theory to practice.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 750 History of Rhetoric and Writing Studies
3 cr. Graduate.
Background in historic rhetorical traditions and critical commentary on those traditions.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ENGLISH 751 History of Rhetoric II:
3 cr. Graduate.
Study of central themes, concepts, and issues after the classical period.
Prerequisites: grad st; English 750(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 752 Essay as Genre
3 cr. Graduate.
A study of the tradition of the essay in England and America and its relation to rhetoric and composition.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ENGLISH 753 Contemporary Rhetorical Theory
3 cr. Graduate.
Survey of rhetorical theory in contemporary scholarship, criticism, and research, with special emphasis on the development of rhetorical concepts and composition studies.
Prerequisites: grad st; English 750(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ENGLISH 754 Post-Secondary Composition-Topics in Pedagogical Theory:
3 cr. Graduate.
Topics in pedagogical theory applicable to teaching post-secondary composition, such as the composing process, discourse, analysis, literacy, or writing assessment.
Prerequisites: grad st & English 701(P), or equiv post-secondary teaching experience, or cons instr.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 755 Issues in Writing Research
3 cr. Graduate.
Analysis of major issues in rhetoric and writing within historical and theoretical contexts.
Prerequisites: grad st.
Last Taught: Spring 2017, Fall 2010, Fall 2007, Fall 2003.
Current Offerings: http://uwm.edu/schedule

ENGLISH 758 Writing Workshop in Rhetoric and Composition
3 cr. Graduate.
Graduate-level course on writing and the critique of writing practice.
Prerequisites: grad st.
Last Taught: Spring 2016, Spring 2012.
Current Offerings: http://uwm.edu/schedule

ENGLISH 761 Discourse Analysis
3 cr. Graduate.
A graduate-level introduction to the formal analysis of discourse.
Prerequisites: grad st; English 403(P) or Linguist 464(P) or equiv.
Last Taught: Fall 2014, Spring 2013, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ENGLISH 764 Sociolinguistics
3 cr. Graduate.
A graduate-level investigation of selected topics in sociolinguistic theory and method.
Prerequisites: grad st.
Last Taught: Spring 2016, Spring 2014, Fall 1990.
Current Offerings: http://uwm.edu/schedule

ENGLISH 768 Linguistic Perspectives on Literature
3 cr. Graduate.
A survey of linguistic theory and technique relevant to the study of literature. The relation between linguistic theory, semiotics, and literary theory.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

ENGLISH 769 Topics in Linguistics:
3 cr. Graduate.
Advanced-level study of a topic relevant to linguistics; may be contemporary or historical.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 769 & Linguist 769 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 770 Advanced Internship in Writing & Community Engagement
1-4 cr. Graduate.
Practicum in writing and community engagement enabling students to develop new skills and credentials while learning how best to test theory through practice and apply theory to practice.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 775 Issues in Writing Research
3 cr. Graduate.
Analysis of major issues in rhetoric and writing within historical and theoretical contexts.
Prerequisites: grad st.
Last Taught: Spring 2017, Fall 2010, Fall 2007, Fall 2003.
Current Offerings: http://uwm.edu/schedule

ENGLISH 780 Writing Workshop II
3 cr. Graduate.
Graduate-level course on writing and the critique of writing practice.
Prerequisites: grad st.
Last Taught: Spring 2016, Spring 2012.
Current Offerings: http://uwm.edu/schedule

ENGLISH 789 Topics in Linguistics:
3 cr. Graduate.
Advanced-level study of a topic relevant to linguistics; may be contemporary or historical.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 769 & Linguist 769 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 790 Advanced Internship in Writing & Community Engagement
1-4 cr. Graduate.
Practicum in writing and community engagement enabling students to develop new skills and credentials while learning how best to test theory through practice and apply theory to practice.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ENGLISH 771 Literature of the English Renaissance:
3 cr. Graduate.
Introduction to the literature of the English Renaissance, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 772 Restoration and Eighteenth-Century Literature:
3 cr. Graduate.
Introduction to English literature, 1660-1800, and related scholarship, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Spring 2015, Fall 2007, Fall 2005.
Current Offerings: http://uwm.edu/schedule

ENGLISH 774 Literature in Victorian England:
3 cr. Graduate.
Introduction to English literature, 1837-1901, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2013, Fall 2008, Fall 1997, Fall 1991.
Current Offerings: http://uwm.edu/schedule

ENGLISH 775 Modern English Literature:
3 cr. Graduate.
Introduction to English literature of the 20th century, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 776 Women Writers:
3 cr. Graduate.
A course focusing on the major women writers of a period or genre, or in relation to specified themes.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 777 American Literature to 1830:
3 cr. Graduate.
Introduction to American literature to 1830, with related scholarship, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 778 Native American Literature:
3 cr. Graduate.
Introduction to the literature of the American Indian, emphasizing critical approaches and relevant scholarship.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 779 American Literature, 1830-1900:
3 cr. Graduate.
Introduction to American literature from 1830-1900, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 780 African American Literature:
3 cr. Graduate.
Introduction to the major writers and themes in African American literature, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 781 Modern American Literature:
3 cr. Graduate.
Introduction to American literature of the 20th century, emphasizing current critical issues.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 782 Contemporary Literature:
3 cr. Graduate.
Introduction to recent developments in English and American literature, emphasizing new writers and significant literary innovations.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 783 World Literature in English:
3 cr. Graduate.
A course focusing on the major writers, themes and traditions of national/ethnic groups outside England and the United States.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 784 Topics in Transnational Literature
3 cr. Graduate.
Texts, concepts, topics, and/or theoretical issues in literature from a transnational perspective.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: http://uwm.edu/schedule
ENGLISH 789 Practicum in Teaching ESL to Adult Learners
1-6 cr. Graduate.
Field experience in teaching English as a second language to adult learners.
Prerequisites: grad st; English/Linguis 567(P) or Linguis 767(P); cons instr.
Course Rules: Open only to grad students in Linguis specializing in ESL. Retakable to max of 6 cr. English 789 & Linguis 789 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 790 Master's Project
1-6 cr. Graduate.
Research towards the MA final project.; schedule and requirements developed in consultation with program advisor.
Prerequisites: 12 cr in English MA Prog; cons advisor.
Course Rules: Retakable to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 798 Graduate-Level Service Learning
1 cr. Graduate.
Faculty-supervised placement of students as community service volunteers.
Prerequisites: grad st or cons instr; conc reg in English 700-level or above service learning course.
Course Rules: Retakable to 3 cr max.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

ENGLISH 799 Independent Reading for Master's Candidates
1-4 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

ENGLISH 805 Seminar in English Language:
3 cr. Graduate.
Advanced-level seminar addressing specific topics in English language, both contemporary and historical.
Prerequisites: grad st; English/Linguis 400(P).
Course Rules: Retakable w/chg in topic to 9 cr max. English 805 & Linguis 805 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 806 Seminar in Linguistics:
3 cr. Graduate.
Advanced-level seminar in which students do in-depth research on a particular area of linguistics through readings, class discussion, and writing a research paper.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 806 & Linguis 806 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 812 Seminar in Theories of Composition and Rhetoric:
3 cr. Graduate.
A graduate-level introduction to the history and current development of rhetoric and composition theory, and to their applications in research in written composition.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Fall 2011, Fall 2009, Fall 2007.
Current Offerings: http://uwm.edu/schedule

ENGLISH 813 Special Topics in Creative Writing:
3 cr. Graduate.
Readings, writing, and discussion in a designated genre, form, or literary tradition.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 814 Seminar in Irish Literature:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 815 Seminar in Fiction Writing:
3 cr. Graduate.
Content varies. A workshop for graduate students.
Prerequisites: grad st & English 715(P).
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 816 Seminar in Poetry Writing:
3 cr. Graduate.
Content varies. A workshop for advanced graduate students.
Prerequisites: grad st; English 716(P).
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 817 Seminar in Critical Writing
3 cr. Graduate.
An advanced workshop in the writing and revising of critical essays.
Prerequisites: grad st.
Last Taught: Spring 2012, Fall 2010, Fall 2008, Fall 2006.
Current Offerings: http://uwm.edu/schedule

ENGLISH 819 Project in Creative Writing
1-6 cr. Graduate.
Content varies.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max. Open only to MA candidates in Plan C, creative writing.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ENGLISH 820 Seminar in Advanced Topics in Literary Criticism and Research:
1-3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 822 Seminar in Poetry:
3 cr. Graduate.
An intensive examination of some aspect of the genre, including questions of history, theory, theme, or technique, or the study of major figures.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 824 Seminar in Special Topics in Literature:
3 cr. Graduate.
Advanced study of a topic in literary history, criticism or theory.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Fall 2011, Spring 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ENGLISH 825 Seminar in Major Figures:
3 cr. Graduate.
Topics vary. Poetry, fiction, drama, and non-fiction prose writers, with attention to biography, culture and literary background.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2014, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ENGLISH 827 Seminar in Contemporary Literature:
3 cr. Graduate.
Advanced study of a specialized topic or critical issue in the recent work of contemporary writers in english.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 828 Seminar in Comparative Literature:
3 cr. Graduate.
Advanced study of a specialized topic or critical issue in the literatures of two or more languages and/or national traditions.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 843 Seminar in Renaissance Prose and Poetry:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 845 Seminar in Shakespeare:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 853 Seminar in Contemporary Rhetorical Theory:
1-3 cr. Graduate.
Issues, topics, and major figures in contemporary rhetoric, philosophies of composition, critical discourse, and theories of writing.
Prerequisites: grad st; English 750(P); English 753(P) or 755(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 854 Seminar in College Writing Pedagogy:
3 cr. Graduate.
Professional concerns in teaching college writing; develops various topics in-depth, such as cultural literacy or large-scale assessment.
Prerequisites: grad st; 6 cr at 700-level, including English 706(P), 754(P), or 755(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2015, Spring 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

ENGLISH 855 Seminar in Public Rhetorics and Community Engagement:
3 cr. Graduate.
Theories of public rhetorics and community engagement. The effects of institutional structures and organizational cultures on writers and rhetoric. Retakable w/chg in topic to 6 cr max. Prereq: grad st; English 706(P);English 753(P) or 756(P).
Prerequisites:
Last Taught: Fall 2017, Spring 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 858 Seminar in Professional and Literary Nonfiction:
3 cr. Graduate.
Advanced study of publications and audiences in nonfiction; intensive writing and research in scholarship, education, the arts, human services, business, and government.
Prerequisites: grad st; English 758(p).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 861 Seminar in Romantic Literature:
3 cr. Graduate.
This seminar will examine one or more aspects of english romanticism as expressed in the poetry and essays of the age.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2000, Fall 1994.
Current Offerings: http://uwm.edu/schedule

ENGLISH 862 Seminar in Victorian Literature:
3 cr. Graduate.
Advanced studies in victorian poetry, fiction, drama, and non-fiction prose, with attention to culture and critical theory.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
ENGLISH 871 Seminar in African American Literature:
3 cr. Graduate.
Intensive examination of one or more major writers, themes, or critical topics in the literature of African Americans.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 872 Seminar in Women Writers:
3 cr. Graduate.
Intensive examination of one or more major writers, themes, or critical topics.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.

ENGLISH 874 Seminar in World Literature in English:
3 cr. Graduate.
Advanced study of one or more major writers or special topics in the literature outside England and the United States.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ENGLISH 875 Seminar in Modern Literature:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2015, Spring 2014, Fall 2012, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ENGLISH 876 Seminar in Media Culture:
3 cr. Graduate.
Seminar focused on a broad issue related to media culture or specific forms of media, including alternative textual production, cinema, and digital culture.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 876 & FilmStd 876 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ENGLISH 877 Seminar in Film Theory:
3 cr. Graduate.
A graduate-level seminar in film theory.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 877 & FilmStd 877 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

ENGLISH 878 Seminar in Feminist Critical Theory:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2014, Spring 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ENGLISH 879 Seminar in Native American Literature:
3 cr. Graduate.
Intensive examination of one or more major writers, themes, or critical topics in the literature of Native Americans.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2013, Fall 2009, Spring 2006, Fall 2001.
Current Offerings: http://uwm.edu/schedule

ENGLISH 881 Seminar in Colonial American Literature:
3 cr. Graduate.
Advanced studies in the literature of colonial America with special attention to cultural and literary backgrounds and critical theory.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.

ENGLISH 882 Seminar in Nineteenth-Century American Literature:
3 cr. Graduate.
Retakable w/chg in topic to 6 cr max. Prereq: grad st
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2013, Fall 2012, Spring 2009.
Current Offerings: http://uwm.edu/schedule

ENGLISH 883 Seminar in Twentieth-Century American Literature:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ENGLISH 885 Seminar in Critical Theory:
3 cr. Graduate.
A graduate-level seminar in one or more major theoretical models, methods, or approaches.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 887 Understanding Participatory Media
3 cr. Graduate.
Theory and critical approaches to creative use of computational, networked media.
Prerequisites: grad st.
Course Rules: Counts as repeat of English 876 w/same topic.
Last Taught: Spring 2018, Fall 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

ENGLISH 888 Candidate for Degree
0 cr. Graduate.
Available for students who must meet minimum credit requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ENGLISH 890 Science, Communications, & Public Engagement
3 cr. Graduate.
Theory and practice of science communication and public engagement for a variety of audiences, including interdisciplinary researchers, public policy professionals, the press, and public stakeholders.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

ENGLISH 902 STEM and Public Debate
1 cr. Graduate.
How to engage in public debates about science, with special attention paid to responding to scientific detractors and manufactured controversies.
Prerequisites: grad st, English 901(R)
Current Offerings: http://uwm.edu/schedule

ENGLISH 903 Presenting STEM
1 cr. Graduate.
Development of facility with oral presentations of research results to a wide variety of venues including conferences, public lectures, and job talks.
Prerequisites: grad st, English 901(R)
Current Offerings: http://uwm.edu/schedule

ENGLISH 990 Research in English
1-3 cr. Graduate.
Reserved for research in connection with doctoral thesis.
Prerequisites: admis to Ph.D. prog & completion of 45 grad cr.
Course Rules: Retakable as necessary to fulfill thesis requirements.
Consult coord grad studies.
Current Offerings: http://uwm.edu/schedule

ENGLISH 999 Independent Reading for Ph.D. Candidates
1-3 cr. Graduate.
Consult graduate advisor.
Prerequisites: admis to Ph.D. candidacy.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

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<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Gerald J. Alred</td>
<td>Professor</td>
<td>MA</td>
<td>University of California-Riverside</td>
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<tr>
<td>Sukanya Banerjee</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Notre Dame</td>
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<td>F. Xavier Baron</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-Los Angeles</td>
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<td>Kimberly Blaeser</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Kansas</td>
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<td>Gilberto Blasini</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Washington</td>
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<td>Rachel Bloom-Pojar</td>
<td>Assistant Professor</td>
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<td>Mary Louise Buley-Meissner</td>
<td>Professor</td>
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<td>Marcus P. Bullock</td>
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<td>Liam Callanan</td>
<td>Associate Professor</td>
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<td>George Mason University</td>
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<td>George M. Clark</td>
<td>Professor</td>
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<td>Florida State University</td>
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<td>David P. Clark</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Iowa State University</td>
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<tr>
<td>Brenda Cárdenas</td>
<td>Associate Professor</td>
<td>MFA</td>
<td>University of Michigan - Ann Arbor</td>
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<tr>
<td>Rebecca Dunham</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Missouri</td>
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<tr>
<td>J. Denny Fischer</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Illinois</td>
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<tr>
<td>Jane A. Gallop</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>Cornell University</td>
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<tr>
<td>Alice Gillam</td>
<td>Professor</td>
<td>PhD</td>
<td>Ball State University</td>
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<tr>
<td>John A. Goulet</td>
<td>Professor</td>
<td>PhD</td>
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<tr>
<td>S. Scott Graham</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Iowa State University</td>
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<tr>
<td>Sandra Grayson</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California – Riverside</td>
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<tr>
<td>Richard Grusin</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
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<tr>
<td>Maurice Kilwein Guevara</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J. Lane Hall</td>
<td>Professor</td>
<td>MFA</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kristie Hamilton</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Texas-Austin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gregory S. Jay</td>
<td>Professor</td>
<td>PhD</td>
<td>State University of New York-Buffalo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrett Kalter</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Rutgers University</td>
<td></td>
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</tr>
<tr>
<td>William Keith</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Texas-Austin</td>
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</tr>
</tbody>
</table>
English, BA

Majoring in English provides students with a wealth of intellectual and practical learning, a foundation to future success. In today’s high-technology, interconnected world, the ability to read carefully, think imaginatively, understand others, and communicate across all types of platforms and formats is essential.

Students in the English major at UWM get to choose a track and focus their studies on an area of particular interest:

- Literature and Cultural Theory - where the reading and analysis of literature is emphasized
- Rhetoric and Writing - a broad field that includes writing for different genres
- Creative Writing - ideal for students who love fiction and poetry
- Professional and Technical Writing - with an emphasis on business documentation
- Media, Cinema, and Digital Studies - includes the many forms of communicating through media such as film, tv, games, and the web

In small classes, our students learn to understand the power and possibilities of the English language across the centuries and around the world. Students learn to think critically, write persuasively, argue logically, delve deeply into history, and explore their own creativity. Students are challenged to examine their own assumptions, sharpen their writing, and learn how to read and understand even the most difficult works, from fiction to philosophy.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.
### University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
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<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
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<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
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<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
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<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
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<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
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<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
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<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
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<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
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<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
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<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
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<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
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<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
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<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
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<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
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<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
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<tr>
<td></td>
<td>Or equivalent</td>
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<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
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<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

### College of Letters & Science Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>I. English Writing Requirement</strong></td>
<td></td>
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<tr>
<td></td>
<td>Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters &amp; Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.</td>
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<tr>
<td></td>
<td><strong>II. Mathematics and Formal Reasoning</strong></td>
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<tr>
<td></td>
<td>To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 102 Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 175 Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
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<td></td>
<td><strong>Note:</strong> This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.</td>
<td></td>
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<tr>
<td></td>
<td>2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:</td>
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<tr>
<td></td>
<td>Complete one of the following:</td>
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<tr>
<td></td>
<td>3 or more credits in any 200-level or above Math course</td>
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<tr>
<td></td>
<td>AFRICOL 220 Introduction to Statistics in Africology</td>
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<tr>
<td></td>
<td>ANTHRO 568 Introduction to Anthropological Statistics</td>
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<tr>
<td></td>
<td>ATM SCI 500 Statistical Methods in Atmospheric Sciences</td>
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<tr>
<td></td>
<td>BIO SCI 465 Biostatistics</td>
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<tr>
<td></td>
<td>ECON 210 Economic Statistics</td>
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<td></td>
<td>GEOG 247 Quantitative Analysis in Geography</td>
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<tr>
<td></td>
<td>HIST 595 The Quantitative Analysis of Historical Data</td>
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<tr>
<td></td>
<td>MTHSTAT 215 Elementary Statistical Analysis</td>
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<td></td>
<td>PHILOS 211 Elementary Logic</td>
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<td></td>
<td>POL SCI 390 Political Data Analysis</td>
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<td></td>
<td>POL SCI 392 Survey Research</td>
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<tr>
<td></td>
<td>PSYCH 210 Psychological Statistics</td>
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<tr>
<td></td>
<td>SOCIOL 261 Introduction to Statistical Thinking in Sociology</td>
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<tr>
<td></td>
<td><strong>Note:</strong> This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&amp;S approved courses. The courses listed here will satisfy the QL-B requirement.</td>
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<tr>
<td></td>
<td><strong>III. Foreign Language Requirement</strong></td>
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<tr>
<td></td>
<td>Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.</td>
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<tr>
<td></td>
<td>Completion of the L&amp;S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.</td>
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<tr>
<td></td>
<td><strong>Note:</strong></td>
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<tr>
<td></td>
<td><strong>Code</strong></td>
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<tr>
<td></td>
<td><strong>Title</strong></td>
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<tr>
<td></td>
<td><strong>Credits</strong></td>
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<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>0-18</td>
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<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
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</tbody>
</table>
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
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<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
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</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
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<tr>
<td></td>
<td>Humanities Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

English Major Requirements
The department welcomes prospective majors who have maintained a minimum 2.500 GPA in their English courses during the freshman and sophomore years.

Prospective majors are expected to consult with the associate chair for undergraduate studies in designing a program that satisfies their individual interests, abilities, and ambitions; if appropriate, a particular requirement may be waived to meet a student's special programmatic needs. English majors intending to continue their studies in graduate school are urged to plan with the coordinator a program that meets graduate school expectations and prepares them for the Graduate Record Exam.

Students entering with advanced standing are required to earn at least 15 credits in English courses numbered 300 and above while in residence at UWM.

Credit Requirements
All students must complete ENGLISH 215 before declaring the major. This is a rigorous sophomore-level course designed to introduce students to the discipline; to teach them how to read closely and critically; and to instruct them in the writing of analytical essays. Since ENGLISH 215 is intended to help students improve their performance in upper-level English courses, it is recommended strongly that students take it before registering for any higher-level courses.

All courses taken towards the major must be at or above the 300 level unless otherwise noted. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

English majors also must complete one of the following tracks. In each track, in their senior year, majors complete a capstone course or senior seminar. This course includes one or more in-depth writing assignments or projects that include a research component, which satisfies the research requirement for the L&S degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Select one of the following tracks:</td>
<td>36-39</td>
</tr>
<tr>
<td></td>
<td>Track A: Literary and Cultural Theory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Track B: Rhetoric and Writing</td>
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<tr>
<td></td>
<td>Track C: Creative Writing</td>
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</tr>
<tr>
<td></td>
<td>Track D: English Language and Linguistics</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Track E: Literature, Culture, and Media</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Track F: Literature and Language Studies</td>
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</tr>
<tr>
<td></td>
<td>Track G: Professional and Technical Communications</td>
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</tr>
</tbody>
</table>
Track H: Media, Cinema, and Digital Studies

| Total Credits | 36-39 |

1 At this time, students are not being admitted to this track.

Tracks

Track A: Literary and Cultural Theory

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following in English literature from before 1900 and one in pre-1800 literature:

| ENGLISH 301 | Survey of English Literature, Beginnings to 1500            | 6       |
| ENGLISH 302 | Survey of English Literature, 1500-1660                     |         |
| ENGLISH 303 | Survey of English Literature, 1660-1798                     |         |
| ENGLISH 304 | Survey of English Literature, 1798-1900                     |         |
| ENGLISH 451 | Chaucer                                                      |         |
| ENGLISH 452 | Shakespeare                                                  |         |
| ENGLISH 453 | Milton                                                        |         |
| ENGLISH 454 | Writers in Drama:                                           |         |
| ENGLISH 455 | Writers in English Literature, 1500-1660:                   |         |
| ENGLISH 456 | Writers in English Literature, 1660-1798:                   |         |
| ENGLISH 457 | Writers in English Literature, 1798-1900:                   |         |
| ENGLISH 500 | Studies in Medieval and Early Modern Literature:            |         |
| ENGLISH 501 | Studies in Literature, 1500-1660:                          |         |
| ENGLISH 502 | Studies in Literature, 1660-1800:                          |         |
| ENGLISH 504 | Studies in Literature, 1800-1900:                          |         |
| ENGLISH 530 | Studies in Shakespeare:                                    |         |

Select one of the following:

| ENGLISH 307 | Survey of American Literature to 1865                       | 3       |
| ENGLISH 308 | Survey of American Literature, 1865-1965                   |         |
| ENGLISH 460 | Writers in American Literature, 1500-1900:                 |         |

Select one of the following:

| ENGLISH 376 | Survey of African-American Literature to 1930              |         |
| ENGLISH 377 | Survey of African-American Literature, 1930 to the Present |         |
| ENGLISH 381 | World Literatures Written in English:                      |         |
| ENGLISH 463 | Writers in African-American Literature:                    |         |
| ENGLISH 465 | Women Writers:                                              |         |
| ENGLISH 517 | Studies in African-American Literature:                    |         |
| ENGLISH 518 | Studies in Irish Literature:                               |         |
| ENGLISH 520 | Studies in American Indian Literature:                     |         |
| ENGLISH 521 | Studies in Ethnic Minority Literature:                     |         |
| ENGLISH 522 | Studies in World Literature Written in English:           |         |
| ENGLISH 523 | Studies in U.S. Latino/a Literature:                       |         |
| ENGLISH 524 | Studies in Asian-American Literature:                     |         |
| ENGLISH 622 | Seminar in Irish Literature:                              |         |
| ENGLISH 628 | Seminar in Literature by Women:                           |         |
| ENGLISH 629 | Seminar in Literature and Sexuality.                       |         |
| ENGLISH 631 | Seminar in African-American Literature:                   |         |
| ENGLISH 632 | Seminar in American Indian Literature:                     |         |

Select one of the following:

| ENGLISH 415 | Fiction Workshop                                           |         |
| ENGLISH 416 | Poetry Workshop                                            |         |
| ENGLISH 430 | Advanced Writing Workshop                                 |         |
| ENGLISH 431 | Topics in Advanced Communications:                        |         |
| ENGLISH 432 | The Rhetoric of Argument                                  |         |
| ENGLISH 433 | Studies in the History of Literary Criticism:             |         |
| ENGLISH 434 | Seminar in the Art of Literature:                         |         |
| ENGLISH 435 | Seminar in the Literature of England:                     |         |
| ENGLISH 436 | Seminar in the Literature of England:                     |         |
| ENGLISH 437 | Seminar in the Literature of Ireland:                     |         |
| ENGLISH 438 | Seminar in the Literature of Modern Literature:           |         |
| ENGLISH 439 | Seminar in Literary History:                              |         |
| ENGLISH 440 | Seminar in Critical Theory:                               |         |
| ENGLISH 441 | Seminar in Literature and Culture:                         |         |
| ENGLISH 442 | Seminar in Literature and Sexuality.                       |         |
| ENGLISH 443 | Seminar in Literature and the Other Arts:                 |         |
| ENGLISH 444 | Seminar in African-American Literature:                   |         |
| ENGLISH 445 | Seminar in American Indian Literature:                    |         |
| ENGLISH 446 | Seminar in Rhetoric and Writing:                          |         |
| ENGLISH 447 | Seminar in English Language Studies:                      |         |

Select 9 credits in English electives at the 300 level or above

Select one of the following capstone seminars (satisfies L&S research requirement):

| ENGLISH 620 | Seminar in the Art of Literature:                         | 3       |
| ENGLISH 621 | Seminar in the Literature of England:                     |         |
| ENGLISH 622 | Seminar in Irish Literature:                              |         |
| ENGLISH 623 | Seminar in American Indian Literature:                    |         |
| ENGLISH 624 | Seminar in Modern Literature:                            |         |
| ENGLISH 625 | Seminar in Literary History:                             |         |
| ENGLISH 626 | Seminar in Critical Theory:                               |         |
| ENGLISH 627 | Seminar in Literature and Culture:                        |         |
| ENGLISH 628 | Seminar in Literature by Women:                           |         |
| ENGLISH 629 | Seminar in Literature and Sexuality.                      |         |
| ENGLISH 630 | Seminar in Literature and the Other Arts:                 |         |
| ENGLISH 631 | Seminar in African-American Literature:                   |         |
| ENGLISH 632 | Seminar in American Indian Literature:                    |         |
| ENGLISH 633 | Seminar in Rhetoric and Writing:                          |         |
| ENGLISH 634 | Seminar in English Language Studies:                      |         |

Select two of the following:

<p>| ENGLISH 306 | Survey of Irish Literature                                 | 6       |
| ENGLISH 332 | Gay and Lesbian Literature:                               |         |
| ENGLISH 372 | Survey of American Indian Literature:                     |         |
| ENGLISH 373 | Survey of Ethnic Minority Literature:                     |         |
| ENGLISH 374 | Survey of U.S. Latino/a Literature:                       |         |
| ENGLISH 375 | Survey of Asian American Literature:                      |         |</p>
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<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
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<td>ENGLISH 240</td>
<td>Rhetoric, Writing, and Culture:</td>
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<tr>
<td>ENGLISH 310</td>
<td>Writing, Speaking, and Technoscience in the 21st Century</td>
<td>3</td>
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<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 633</td>
<td>Seminar in Rhetoric and Writing: (subtitle) (capstone seminar experience) (satisfies L&amp;S research requirement)</td>
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</tbody>
</table>

Select 15 credits in Rhetoric, Professional Writing, and Media Studies  

ENGLISH 294  Game Culture  
ENGLISH 380  Media and Society  
ENGLISH 400  Introduction to English Linguistics  
ENGLISH 404  Language, Power, and Identity  
ENGLISH 426  Professional and Technical Communications Research  
ENGLISH 427  Writing for Nonprofits  
ENGLISH 431  Topics in Advanced Communications: (Rhetorical History and Theory)  
ENGLISH 432  The Rhetoric of Argument  
ENGLISH 430  Advanced Writing Workshop  
ENGLISH 433  Creative Nonfiction for Publication  
ENGLISH 436  Technical Documentation  
ENGLISH 437  Project Management for Professional Writers  
ENGLISH 434  Editing and Publishing  
ENGLISH 439  Information Design  
ENGLISH 443  Grant Writing  
ENGLISH 444  Technical Editing  
ENGLISH 446  Global Business Communications  
ENGLISH 448  Technical Communications Theory and Practice  
ENGLISH 449  Internship in the Humanities  

Select 6 credits in Diversity and Community Studies  

ENGLISH 316  World Cinema:  
ENGLISH 372  Survey of American Indian Literature  
ENGLISH 373  Survey of Ethnic Minority Literature  
ENGLISH 374  Survey of U.S. Latino/a Literature  
ENGLISH 375  Survey of Asian American Literature  
ENGLISH 376  Survey of African-American Literature to 1930  
ENGLISH 377  Survey of African-American Literature, 1930 to the Present  
ENGLISH 381  World Literatures Written in English:  
ENGLISH 463  Writers in African-American Literature:  
ENGLISH 465  Women Writers:  
ENGLISH 517  Studies in African-American Literature:  

ENGLISH 520  Studies in American Indian Literature:  
ENGLISH 521  Studies in Ethnic Minority Literature:  
ENGLISH 522  Studies in World Literature Written in English:  
ENGLISH 523  Studies in U.S. Latino/a Literature:  
ENGLISH 524  Studies in Asian-American Literature:  
ENGLISH 628  Seminar in Literature by Women:  
ENGLISH 629  Seminar in Literature and Sexuality:  
ENGLISH 631  Seminar in African-American Literature:  
ENGLISH 632  Seminar in American Indian Literature:  

Total Credits: 36

Track C: Creative Writing

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<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
<td>3</td>
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</tbody>
</table>

Select one of the following:  

ENGLISH 233  Introduction to Creative Writing  
ENGLISH 234  Writing Fiction: Structure and Technique  
ENGLISH 235  Writing Poetry: Forms, Styles, Voices  

Select three of the following:  

ENGLISH 414  Special Topics in Creative Writing:  
ENGLISH 415  Fiction Workshop  
ENGLISH 416  Poetry Workshop  
ENGLISH 418  Literary Journal Production  
ENGLISH 611  The Writer and the Current Literary Scene  
ENGLISH 612  Poetry and the Creative Process  

Select two of the following:  

ENGLISH 325  The Art of Fiction:  
ENGLISH 326  The Development of the Novel:  
ENGLISH 327  The Development of the Short Story  
ENGLISH 328  Forms of Experimental Literature:  
ENGLISH 329  Film and Literature  
ENGLISH 341  The Development of Drama:  
ENGLISH 342  Comedy:  
ENGLISH 343  Tragedy:  
ENGLISH 344  Modern Drama:  
ENGLISH 360  The Art of Poetry:  
ENGLISH 361  The Development of Poetry:  
ENGLISH 378  Survey of Current Literary and Cultural Theory  
ENGLISH 417  Readings for Writers:  
ENGLISH 515  Literature and the Other Arts:  
ENGLISH 547  Studies in Theory and Criticism:  

Select one of the following:  

ENGLISH 301  Survey of English Literature, Beginnings to 1500  
ENGLISH 302  Survey of English Literature, 1500-1660  
ENGLISH 303  Survey of English Literature, 1660-1798  
ENGLISH 451  Chaucer  
ENGLISH 454  Milton  
ENGLISH 456  Writers in English Literature, 1500-1660:  

ENGLISH 520  Studies in American Indian Literature:  
ENGLISH 521  Studies in Ethnic Minority Literature:  
ENGLISH 522  Studies in World Literature Written in English:  
ENGLISH 523  Studies in U.S. Latino/a Literature:  
ENGLISH 524  Studies in Asian-American Literature:  
ENGLISH 628  Seminar in Literature by Women:  
ENGLISH 629  Seminar in Literature and Sexuality:  
ENGLISH 631  Seminar in African-American Literature:  
ENGLISH 632  Seminar in American Indian Literature:  

Total Credits: 36
ENGLISH 457  Writers in English Literature, 1660-1798:
ENGLISH 500  Studies in Medieval and Early Modern Literature:
ENGLISH 501  Studies in Literature, 1500-1660:
ENGLISH 504  Studies in Literature, 1660-1800:
ENGLISH 530  Studies in Shakespeare:

Select two of the following:  

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<td>Survey of English Literature, 1798-1900</td>
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<td>ENGLISH 305</td>
<td>Survey of English Literature: 1900 to the Present</td>
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<td>ENGLISH 306</td>
<td>Survey of Irish Literature</td>
<td>3</td>
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<td>ENGLISH 307</td>
<td>Survey of American Literature to 1865</td>
<td>3</td>
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<td>ENGLISH 308</td>
<td>Survey of American Literature, 1865-1965</td>
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<td>ENGLISH 309</td>
<td>Survey of Contemporary American Literature</td>
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<td>ENGLISH 332</td>
<td>Gay and Lesbian Literature</td>
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<td>ENGLISH 372</td>
<td>Survey of American Indian Literature</td>
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<td>ENGLISH 373</td>
<td>Survey of Ethnic Minority Literature</td>
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<td>ENGLISH 374</td>
<td>Survey of U.S. Latino/a Literature</td>
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<td>ENGLISH 375</td>
<td>Survey of Asian American Literature</td>
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<td>ENGLISH 377</td>
<td>Survey of African-American Literature, 1930 to the Present</td>
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<td>ENGLISH 381</td>
<td>World Literatures Written in English:</td>
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<td>ENGLISH 455</td>
<td>Writers in Drama:</td>
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<td>ENGLISH 458</td>
<td>Writers in English Literature, 1798-1900:</td>
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<td>ENGLISH 459</td>
<td>Writers in English Literature, 1900 to the Present: (subtitle)</td>
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<td>Writers in American Literature, 1500-1900:</td>
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<td>Writers in American Literature, 1900 to the Present: (subtitle)</td>
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<td>Writers in African-American Literature:</td>
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<td>Women Writers:</td>
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<td>ENGLISH 505</td>
<td>Studies in Literature, 1800-1900:</td>
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<td>Studies in Literature, 1900 to the Present:</td>
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<td>ENGLISH 518</td>
<td>Studies in Irish Literature:</td>
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<td>ENGLISH 520</td>
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<td>Studies in World Literature Written in English:</td>
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<td>ENGLISH 523</td>
<td>Studies in U.S. Latino/a Literature:</td>
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<td>Studies in Asian-American Literature:</td>
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<td>ENGLISH 525</td>
<td>American Indian Literature, Culture, and Creative Arts</td>
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<td>Select 3 credits in an upper-level English elective</td>
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<td>ENGLISH 615</td>
<td>Advanced Workshop in Fiction (capstone experience) (satisfies L&amp;S research requirement)</td>
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<tr>
<td>or ENGLISH 616</td>
<td>Advanced Workshop in Poetry:</td>
<td>3</td>
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</table>

Total Credits 36

Please Note: In order to register for the ENGLISH 615 or ENGLISH 616 capstone (see below), students must have completed successfully two 400-level workshops (ENGLISH 414, ENGLISH 415, ENGLISH 416) as follows:

- Prerequisites for ENGLISH 615 fiction capstone: ENGLISH 415 and one of the following: a second section of ENGLISH 415 or ENGLISH 414 or ENGLISH 416.
- Prerequisites for ENGLISH 616 poetry capstone: ENGLISH 416 and one of the following: a second section of ENGLISH 416 or ENGLISH 414 or ENGLISH 415.
- Students may not take the two required 400-level workshops in the same semester, and they may not take either of them concurrently with ENGLISH 615/ENGLISH 616.

Track D: English Language and Linguistics
At this time, students are not being admitted to this track.

Track E: Literature, Culture, and Media
At this time, students are not being admitted to this track.

Track F: Literature and Language Studies
Completing this option alone does not satisfy the requirements for teaching certification. For certification requirements, see the School of Education (p. 426) section of this catalog:

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<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
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<td>ENGLISH 201</td>
<td>Strategies for Academic Writing</td>
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<td>or ENGLISH 208</td>
<td>Writing and Research</td>
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<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
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<td>ENGLISH 440</td>
<td>Introduction to Peer Tutoring and Practice</td>
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<td>ENGLISH 445</td>
<td>The Composing Process:</td>
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<td>ENGLISH 400</td>
<td>Introduction to English Linguistics</td>
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<td>ENGLISH 401</td>
<td>History of the English Language</td>
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<td>ENGLISH 403</td>
<td>Survey of Modern English Grammar</td>
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<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
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<td>Select one of the following:</td>
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<tr>
<td>ENGLISH 301</td>
<td>Survey of English Literature, Beginnings to 1500</td>
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<td>ENGLISH 302</td>
<td>Survey of English Literature, 1500-1660</td>
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<td>ENGLISH 303</td>
<td>Survey of English Literature, 1660-1798</td>
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<td>Survey of English Literature, 1798-1900</td>
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<td>Survey of English Literature: 1900 to the Present: (subtitle)</td>
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<td>ENGLISH 306</td>
<td>Survey of Irish Literature</td>
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<td>Survey of American Literature to 1865</td>
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<td>Survey of American Literature, 1865-1965</td>
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<td>ENGLISH 309</td>
<td>Survey of Contemporary American Literature</td>
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Select one of the following:  

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<td>ENGLISH 327</td>
<td>The Development of the Short Story</td>
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ENGLISH 328 Forms of Experimental Literature:  
ENGLISH 329 Film and Literature  
ENGLISH 361 The Development of Poetry.  
Select one of the following:  
3  
ENGLISH 451 Chaucer  
ENGLISH 452 Shakespeare  
ENGLISH 454 Milton  
ENGLISH 456 Writers in English Literature, 1500-1660:  
ENGLISH 457 Writers in English Literature, 1660-1798:  
ENGLISH 458 Writers in English Literature, 1798-1900:  
ENGLISH 459 Writers in English Literature, 1900 to the Present:  
ENGLISH 460 Writers in American Literature, 1500-1900:  
ENGLISH 461 Writers in American Literature, 1900 to the Present:  
ENGLISH 465 Women Writers:  
Select one of the following:  
3  
ENGLISH 372 Survey of American Indian Literature  
ENGLISH 373 Survey of Ethnic Minority Literature  
ENGLISH 374 Survey of U.S. Latino/a Literature  
ENGLISH 375 Survey of Asian American Literature  
ENGLISH 376 Survey of African-American Literature to 1930  
ENGLISH 377 Survey of African-American Literature, 1930 to the Present  
ENGLISH 381 World Literatures Written in English:  
Select one of the following:  
3  
ENGLISH 378 Survey of Current Literary and Cultural Theory  
ENGLISH 545 Studies in the History of Literary Criticism:  
ENGLISH 547 Studies in Theory and Criticism:  
Select one of the following:  
3  
ENGLISH 501 Studies in Literature, 1500-1660:  
ENGLISH 504 Studies in Literature, 1660-1800:  
ENGLISH 505 Studies in Literature, 1800-1900:  
ENGLISH 507 Studies in Literature, 1900 to the Present:  
ENGLISH 530 Studies in Shakespeare:  
ENGLISH 621 Seminar in the Literature of England:  
ENGLISH 623 Seminar in American Literature:  
ENGLISH 624 Seminar in Modern Literature:  
ENGLISH 627 Seminar in Literature and Culture:  
ENGLISH 685 Honors Seminar:  
Select one of the following:  
3  
ENGLISH 514 Literature in Context:  
ENGLISH 515 Literature and the Other Arts:  
ENGLISH 517 Studies in African-American Literature:  
ENGLISH 518 Studies in Irish Literature:  
ENGLISH 520 Studies in American Indian Literature:  
ENGLISH 521 Studies in Ethnic Minority Literature:  
ENGLISH 523 Studies in U.S. Latino/a Literature:  
ENGLISH 524 Studies in Asian-American Literature:  
Select one of the following:  
3  
ENGLISH 620 Seminar in the Art of Literature:  
ENGLISH 621 Seminar in the Literature of England:  
ENGLISH 622 Seminar in Irish Literature:  
ENGLISH 623 Seminar in American Literature:  
ENGLISH 624 Seminar in Modern Literature:  
ENGLISH 625 Seminar in Literary History:  
ENGLISH 626 Seminar in Critical Theory:  
ENGLISH 627 Seminar in Literature and Culture:  
ENGLISH 628 Seminar in Literature by Women:  
ENGLISH 629 Seminar in Literature and Sexuality:  
ENGLISH 630 Seminar in Literature and the Other Arts:  
ENGLISH 631 Seminar in African-American Literature:  
ENGLISH 632 Seminar in American Indian Literature:  
Total Credits 36-39  
Track G: Professional and Technical Communications  
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<td>Introduction to English Studies</td>
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<tr>
<td>Select 6 credits in English courses outside of Track G at the 300 level or above (i.e., literature, rhetoric, creative writing, or film and media studies)</td>
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<td>ENGLISH 439</td>
<td>Information Design</td>
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<td>ENGLISH 426</td>
<td>Professional and Technical Communications Research</td>
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<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing</td>
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<tr>
<td>ENGLISH 448</td>
<td>Technical Communications Theory and Practice</td>
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<td>ENGLISH 449</td>
<td>Internship in the Humanities (satisfies L&amp;S research requirement)</td>
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<td>Select 3 credits in English 600-level seminar</td>
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<td>Business Writing</td>
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<td>ENGLISH 206</td>
<td>Technical Writing</td>
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<td>ENGLISH 207</td>
<td>Health Science Writing</td>
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<td>ENGLISH 214</td>
<td>Writing in the Professions:</td>
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<td>Professional and Technical Communications Research</td>
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<td>ENGLISH 431</td>
<td>Topics in Advanced Communications:</td>
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<td>ENGLISH 433</td>
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<td>Editing and Publishing</td>
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<td>Rhetoric and Professional Writing</td>
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<td>Project Management for Professional Writers</td>
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<td>Grant Writing</td>
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**Track H: Media, Cinema, and Digital Studies**

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<td>ENGLISH 290</td>
<td>Introduction to Film Studies</td>
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<td>ENGLISH 291</td>
<td>Introduction to Television Studies</td>
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<td>ENGLISH 294</td>
<td>Game Culture</td>
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<td>ENGLISH 301</td>
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<td>Survey of English Literature, 1660-1798</td>
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<td>Survey of English Literature, 1798-1900</td>
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<td>ENGLISH 305</td>
<td>Survey of English Literature: 1900 to the Present</td>
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<td>ENGLISH 306</td>
<td>Survey of Irish Literature</td>
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<td>Survey of American Literature to 1865</td>
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<td>Survey of American Literature, 1865-1965</td>
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<td>ENGLISH 325</td>
<td>The Art of Fiction:</td>
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<td>The Development of the Novel:</td>
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<td>The Development of the Short Story</td>
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<td>ENGLISH 328</td>
<td>Forms of Experimental Literature</td>
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<td>Gay and Lesbian Literature</td>
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<td>ENGLISH 381</td>
<td>World Literatures Written in English:</td>
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<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
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<td>ENGLISH 414</td>
<td>Special Topics in Creative Writing:</td>
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<td>ENGLISH 415</td>
<td>Fiction Workshop</td>
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<td>ENGLISH 451 - ENGLISH 547</td>
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<td>ENGLISH 390</td>
<td>Classical Film Criticism and Theory</td>
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<td>or ENGLISH 391</td>
<td>Television Criticism and Theory</td>
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<td><strong>Select 12 credits in media, cinema, and digital studies (including at least 3 credits from each area and no more than 3 credits in 200-level courses):</strong></td>
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<tr>
<td>Media</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD  286</td>
<td>Writing about Film and Television</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD  291</td>
<td>Introduction to Television Studies (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD  293</td>
<td>Literature and Media:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD  380</td>
<td>Media and Society:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD  391</td>
<td>Television Criticism and Theory</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENGLISH/FILMSTD 394</th>
<th>Theories of Mass Culture:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 414</td>
<td>Special Topics in Creative Writing: (Zines and Self-Publishing)</td>
</tr>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications: (with appropriate subtitle) (Contact Track H Coordinator)</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (with appropriate subtitle)</td>
</tr>
</tbody>
</table>

**Cinema**

<table>
<thead>
<tr>
<th>ENGLISH/FILMSTD 286</th>
<th>Writing about Film and Television</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies (if not selected above)</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 295</td>
<td>Women and Film</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies:</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 316</td>
<td>World Cinema:</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 320</td>
<td>Studies in Film Authorship:</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 329</td>
<td>Film and Literature</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 383</td>
<td>Cinema and Genre:</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 390</td>
<td>Classical Film Criticism and Theory</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 394</td>
<td>Theories of Mass Culture:</td>
</tr>
<tr>
<td>ENGLISH 414</td>
<td>Special Topics in Creative Writing: (Screenwriting – Story/Structure)</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (with appropriate subtitle)</td>
</tr>
<tr>
<td>FILMSTD/JEWISH 350</td>
<td>Global Jewish Film and Television:</td>
</tr>
<tr>
<td>FILMSTD 412</td>
<td>Global Cinemas - Cinematic Practices in the Context of Globalization:</td>
</tr>
<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality:</td>
</tr>
<tr>
<td>FILMSTD 690</td>
<td>Seminar in Contemporary Cinema and Media: (if not selected as capstone)</td>
</tr>
</tbody>
</table>

**Digital Studies**

<table>
<thead>
<tr>
<th>ENGLISH 294</th>
<th>Game Culture (if not selected above)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies: (Cinema and Digital Studies)</td>
</tr>
<tr>
<td>ENGLISH 414</td>
<td>Special Topics in Creative Writing: (Animated Texts)</td>
</tr>
<tr>
<td>ENGLISH 436</td>
<td>Technical Documentation</td>
</tr>
<tr>
<td>ENGLISH 515</td>
<td>Literature and the Other Arts: (From Dada to the Web)</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (with appropriate subtitle)</td>
</tr>
</tbody>
</table>

**Select 6 credits in upper-level electives**

<table>
<thead>
<tr>
<th>ENGLISH/FILMSTD 286</th>
<th>Writing about Film and Television</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH/FILMSTD 291</td>
<td>Introduction to Television Studies (if not selected above)</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 293</td>
<td>Literature and Media:</td>
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<td>ENGLISH/FILMSTD 380</td>
<td>Media and Society:</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 391</td>
<td>Television Criticism and Theory</td>
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</table>

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<tbody>
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<td>ENGLISH 414</td>
<td>Special Topics in Creative Writing: (Zines and Self-Publishing)</td>
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<td>Topics in Advanced Communications: (with appropriate subtitle) (Contact Track H Coordinator)</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (with appropriate subtitle)</td>
</tr>
</tbody>
</table>
Cross-listed Courses
The following courses offered by other departments may be used to fulfill the requirements of the undergraduate major or minor in English:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 300</td>
<td>Interviewers and Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 313</td>
<td>Human Communication and Technology</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 410</td>
<td>Organizational Communication Technology</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 306</td>
<td>Feature and Magazine Article Writing:</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 562</td>
<td>Media Studies and Culture</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 359</td>
<td>Playwriting</td>
<td>3</td>
</tr>
</tbody>
</table>

Related Courses
The following courses offered by other departments may be of interest to students in English, but may not be used to fulfill the requirements of the undergraduate major or minor in English:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 105</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 201</td>
<td>Media Writing</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 231</td>
<td>Publication Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless of their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major
English majors need to meet the following three criteria in order to graduate with Honors in the Major:

1. minimum 3.00 GPA on all UWM graded credits attempted;
2. minimum 3.500 GPA on all credits attempted that count toward the major; and
3. minimum 3.500 GPA on all advanced (300+) credits that count toward the major.

Students who meet these criteria should apply to the coordinator of undergraduate studies.

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Professor Gilberto Blasini, gblasini@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/english/undergraduate/
English, MA

Related Certificates

- Graduate Certificate in Professional Writing and Communication (http://uwm.edu/graduateschool/professional-writing-communication-certificate)

The Department of English offers master’s and doctoral degrees in several areas of specialization: Literature and Cultural Theory; Rhetoric and Composition; Creative Writing; Professional and Technical Writing; and Media, Cinema, and Digital Studies. Students apply for admission to a specific area or concentration, but are encouraged to take classes in others. The Department also offers graduate certificates in International Technical Communication and Professional Writing and Communication.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major in English or related field, with appropriate background for proposed concentration of study: Plan A, broad background in English and American literature; Plan B, literature, linguistics, and/or composition; Plan C, literature and creative writing; Plan G, professional writing; Plan H, background in media studies, film studies, or digital and/or popular culture.
2. Undergraduate grade point average of 3.0 (4.0 scale).
4. Three letters of recommendation to the Department’s Director of Graduate Studies from persons familiar with applicant’s academic ability and achievement.
5. A sample of academic writing.
6. For Plan C admission, an applicant must also submit samples of original fiction or poetry.

For more specific information about departmental requirements for admission and instructions for submitting, letters of recommendation, please visit the English Department’s Graduate Admissions Web page.

Major Professor as Advisor

The student must have a Major Professor to advise and supervise the student’s work as specified in Graduate School regulations. The coordinator of the student’s concentration serves as an initial advisor.

Credits and Courses

Students admitted to the master’s program earn the degree by completing a minimum of 30 credits of graduate coursework in English, writing a final project, and passing an oral examination at the conclusion of their coursework.

Although students must enroll initially in one of the five plans of study described below, students who demonstrate a capacity for doctoral work, and wish to earn a Ph.D. at UWM, are advised to proceed as rapidly as possible to the PhD program. Ordinarily students are not allowed to proceed beyond 30 credits without having been admitted to the doctoral program. No more than 27 credits earned at the master’s level may be included in the 54 credits required for the Ph.D.

Plan A (Literature and Cultural Theory)

A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 751</td>
<td>History of Rhetoric II:</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 812</td>
<td>Seminar in Theories of Composition and Rhetoric:</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 854</td>
<td>Seminar in College Writing Pedagogy:</td>
<td></td>
</tr>
<tr>
<td>Select 18 credits of electives</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

1 Which may include up to 6 credits of ENGLISH 790.

Additional Requirements

- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student’s literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.
- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)

Plan B (Rhetoric and Composition)

A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 751</td>
<td>History of Rhetoric II:</td>
<td></td>
</tr>
<tr>
<td>or ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 812</td>
<td>Seminar in Theories of Composition and Rhetoric:</td>
<td>3</td>
</tr>
<tr>
<td>or ENGLISH 854</td>
<td>Seminar in College Writing Pedagogy:</td>
<td></td>
</tr>
<tr>
<td>Select 18 credits of electives</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

1 Which may include up to 6 credits of ENGLISH 790.

Additional Requirements

- A final project, which shall be a research paper appropriate to the student’s professional goals.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.
- One course is strongly recommended in each of the following areas: Computers and Pedagogy (English at the 700 level); Research Methods

Note: Students who plan to apply to the Ph.D. program are advised to select 6 credits in literature or language courses as part of their electives.

Plan C (Creative Writing)

A minimum of 30 credits, including:
Select 6 credits in 600- or 700-level literature courses (at least 3 credits at the 700 level)

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 715 &amp; ENGLISH 815</td>
<td>Narrative Craft and Theory: and Seminar in Fiction Writing:</td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 716 &amp; ENGLISH 816</td>
<td>Poetic Craft and Theory: and Seminar in Poetry Writing:</td>
<td>6</td>
</tr>
</tbody>
</table>

Select 6 credits in writing courses at the 600 or 700 level

Select 12 credits of electives

Total Credits

Additional Requirements

- No more than 12 credits may be earned in 600-level courses.
- A final project, which shall be a collection of fiction and/or poetry, a novel, or other substantial work of imaginative writing.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts representative of the student's literary background and interests.

**Plan G (Professional Writing)**

A minimum of 30 credits, selected in consultation with the student's advisor, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement, Professional Writing Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

800-Level Seminar in Professional Writing

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 855</td>
<td>Seminar in Public Rhetorics and Community Engagement: (recommended)</td>
<td>3</td>
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</tbody>
</table>

700-Level Professional Writing Practice or Pedagogy

Select 12 credits of the following which are especially recommended

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 433</td>
<td>Creative Nonfiction for Publication</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 434</td>
<td>Editing and Publishing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 443</td>
<td>Grant Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 444</td>
<td>Technical Editing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 706</td>
<td>Seminar in Professional Writing Theory and Pedagogy</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 707</td>
<td>Writing for Business Management</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 710</td>
<td>Advanced Project Management for Professional Writers</td>
<td></td>
</tr>
</tbody>
</table>

ENGLISH 711 | Topics in Professional Writing:,Topics in Public and Professional Writing: (Subtitle) | 6       |

Internship or Elective

Select an Internship or 700-level elective in Professional Writing that could lead to a final project

Additional Requirements

Select 6 credits in consultation with the student's advisor

Total Credits

Note: Students who elect to complete a workplace project should expect to prepare a 30-page report justifying the project development and decisions in relationship to the relevant scholarly literature and/or in terms of empirical methods or studies conducted by the student.

**Plan H (Media, Cinema, and Digital Studies)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 742</td>
<td>Media Culture</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Professional Writing:,Topics in Public and Professional Writing: (Subtitle)</td>
<td>6</td>
</tr>
</tbody>
</table>

Select 9 credits in 700-level seminars in digital studies (theory, criticism, or writing) film and/or media

Select two of the following

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Professional Writing:,Topics in Public and Professional Writing: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 714</td>
<td>Usability Studies</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 737</td>
<td>Literature and Aesthetics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/ MALLT 740</td>
<td>Approaches to the Modern I</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/ MALLT 741</td>
<td>Approaches to the Modern II</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 743</td>
<td>Film Studies: (Subtitle)</td>
<td></td>
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<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 775</td>
<td>Modern English Literature: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 700</td>
<td>Teaching Film Studies: (Subtitle)</td>
<td></td>
</tr>
</tbody>
</table>

Select 12 credits of electives in courses numbered 700 and above

Total Credits

Note: Students can take no more than 6 credits in any combination of 400-level U/G courses and interdisciplinary courses.

Students should consult with their advisor about which option would best suit their background and career goals. In general, students with little workplace experience will take the internship and those with substantial workplace experience will take a 700-level elective.

1. Which may include up to 6 credits of ENGLISH 790.
Program Requirements

Final Project
A research paper or other project appropriate to the student's professional goals.

Oral Examination
Usually lasting an hour and a half, the oral exam covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

Regulations Concerning Final Projects and Oral Examinations
1. Students should consult with their advisors before completing 24 credits to determine a final project. Ordinarily, it is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, critical analysis, argumentation, and prose style. For students in Plan C (Creative Writing), the project is a substantial portfolio, the exact character of which is determined in consultation with the student's M.A. Committee. The project serves both as a concluding effort at the master's level and also as an indication of a student's potential for doctoral study.

2. In consultation with the student, the Director of Graduate Studies appoints an M.A. Examining Committee. At least two of the three members must be English Graduate Faculty. The M.A. Examining Committee administers the final Oral Examination, covering the project and a separate reading list of at least 30 texts, to be selected by the student and approved by the Committee.

3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 27 credits at the master's level is applicable to the Ph.D. 54 credit requirement.

4. The Examining Committee offers a recommendation regarding the student's qualifications for further graduate study at the doctoral level. The Committee Chair puts this recommendation in writing and places it in the student's academic file.

5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. No additional credits may be earned for the revision of the project after a failed examination. For further information regarding the M.A. project and examination, see the English Graduate Program Handbook.

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

English, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UWM-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

MLIS/MA English
The MLIS/MA English Coordinated Degree Program prepares students for positions as humanities librarians.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrat/contact-us) online.

Admission
An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Requirements
Students interested in the English MA/MLIS program are expected to follow all the requirements and standards as described in this section of the Bulletin with the following exceptions: the 21 credits required for the MA in English in the coordinated degree program are to be taken within the Department. Courses in related areas must be approved by the Director of Graduate Studies in English. For more information on this program, see the Library and Information Science page.

Credits and Courses

Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses | 18
Total Credits | 30

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

English Courses
Students in the MA/MLIS program may subtract 9 elective credits from their chosen concentration below.

Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework in English,
writing a final project, and passing an oral examination at the conclusion of their coursework.

Although students must enroll initially in one of the five plans of study described below, students who demonstrate a capacity for doctoral work, and wish to earn a Ph.D. at UWM, are advised to proceed as rapidly as possible to the Ph.D. program. Ordinarily students are not allowed to proceed beyond 30 credits without having been admitted to the doctoral program. No more than 27 credits earned at the master’s level may be included in the 54 credits required for the Ph.D.

**Plan A (Literature and Cultural Theory)**
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 751</td>
<td>History of Rhetoric II:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 812</td>
<td>Seminar in Theories of Composition and Rhetoric:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 854</td>
<td>Seminar in College Writing Pedagogy:</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 18 credits of electives ¹

Total Credits 30

¹ Which may include up to 6 credits of ENGLISH 790.

**Additional Requirements**
- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student’s literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.
- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)

**Plan B (Rhetoric and Composition)**
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 751</td>
<td>History of Rhetoric II:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 812</td>
<td>Seminar in Theories of Composition and Rhetoric:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 854</td>
<td>Seminar in College Writing Pedagogy:</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 18 credits of electives ¹

Total Credits 30

¹ Which may include up to 6 credits of ENGLISH 790.

**Additional Requirements**
- A final project, which shall be a research paper appropriate to the student’s professional goals.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.
- One course is strongly recommended in each of the following areas: Computers and Pedagogy (English at the 700 level); Research Methods

**Plan C (Creative Writing)**
A minimum of 30 credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory:</td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 815</td>
<td>and Seminar in Fiction Writing:</td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 716</td>
<td>Poetic Craft and Theory:</td>
<td>6</td>
</tr>
<tr>
<td>ENGLISH 816</td>
<td>and Seminar in Poetry Writing:</td>
<td>6</td>
</tr>
</tbody>
</table>

Select 6 credits in writing courses at the 600 or 700 level

Select 12 credits of electives ¹

Total Credits 30

¹ Which may include up to 6 credits of ENGLISH 790.

**Additional Requirements**
- No more than 12 credits may be earned in 600-level courses.
- A final project, which shall be a collection of fiction and/or poetry, a novel, or other substantial work of imaginative writing.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts representative of the student’s literary background and interests.

**Plan G (Professional Writing)**
A minimum of 30 credits, selected in consultation with the student’s advisor, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement, Professional Writing Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 855</td>
<td>Seminar in Public Rhetorics and Community Engagement: (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 433</td>
<td>Creative Nonfiction for Publication</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 434</td>
<td>Editing and Publishing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 443</td>
<td>Grant Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 444</td>
<td>Technical Editing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 706</td>
<td>Seminar in Professional Writing Theory and Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 707</td>
<td>Writing for Business Management</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
<td>3</td>
</tr>
</tbody>
</table>
Plan H (Media, Cinema, and Digital Studies)

Program Requirements

Final Project

A research paper or other project appropriate to the student’s professional goals.

Oral Examination

Usually lasting an hour and a half, the oral exam covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

Regulations Concerning Final Projects and Oral Examinations

1. Students should consult with their advisors before completing 24 credits to determine a final project. Ordinarily, it is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student’s skills in research, critical analysis, argumentation, and prose style. For students in Plan C (Creative Writing), the project is a substantial portfolio, the exact character of which is determined in consultation with the student’s M.A. Committee. The project serves both as a concluding effort at the master’s level and also as an indication of a student’s potential for doctoral study.

2. In consultation with the student, the Director of Graduate Studies appoints an M.A. Examining Committee. At least two of the three members must be English Graduate Faculty. The M.A. Examining Committee administers the final Oral Examination, covering the project and a separate reading list of at least 30 texts, to be selected by the student and approved by the Committee.

3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 27 credits at the master’s level is applicable to the Ph.D. 54 credit requirement.

4. The Examining Committee offers a recommendation regarding the student’s qualifications for further graduate study at the doctoral level. The Committee Chair puts this recommendation in writing and places it in the student’s academic file.

5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. No additional credits may be earned for the revision of the project after a failed examination. For further information regarding the M.A. project and examination, see the English Graduate Program Handbook.

Time Limit

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

English, Minor

Minoring in English provides students with a wealth of intellectual and practical learning, a foundation to future success. In today’s high-technology, interconnected world, the ability to read carefully, think imaginatively, understand others, and communicate across all types of platforms and formats is essential.
In small classes, our students learn to understand the power and possibilities of the English language across the centuries and around the world. Students learn to think critically, write persuasively, argue logically, delve deeply into history, and explore their own creativity. Students are challenged to examine their own assumptions, sharpen their writing, and learn how to read and understand even the most difficult works, from fiction to philosophy.

Requirements
The College of Letters and Science requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. The minor in English requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select at least one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 451</td>
<td>Chaucer</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 452</td>
<td>Shakespeare</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 454</td>
<td>Milton</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 530</td>
<td>Studies in Shakespeare: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>Select a minimum of 12 credits in English courses numbered 300 and above (at least 9 taken in residence at UWM)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Contact Information
Current Students contact Associate Professor Gilberto Blasini, gblasini@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/english/undergraduate/

English, PhD
Related Certificates
- Graduate Certificate in Professional Writing and Communication (http://uwm.edu/graduateschool/professional-writing-communication-certificate)

The Department of English offers master's and doctoral degrees in several areas of specialization: Literature and Cultural Theory, Rhetoric and Composition; Creative Writing; Professional and Technical Writing; and Media, Cinema, and Digital Studies. Students apply for admission to a specific area or concentration, but are encouraged to take classes in others. The Department also offers graduate certificates in International Technical Communication and Professional Writing and Communication.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students in the UWM Master of Arts degree program in English must pass an M.A. exam and be recommended for admission into the Ph.D. program by their M.A. committee. An application for the Ph.D. program also must be submitted to the Graduate School.

Applicants with master's degrees from other institutions are evaluated on the basis of standard application materials:
- GPA
- GRE (http://uwm.edu/graduateschool/admission/#gre) Scores
- Statement of Purpose
- Three Supporting Letters
- A Sample of Academic Writing

Such applicants are admitted to doctoral study provisionally and are required to complete an Academic Review within six weeks of finishing 12 credits.

For more specific information about departmental requirements for admission, please visit the English Department's Graduate Admissions Web page (http://www4.uwm.edu/letssci/english/grad/admissions.cfm).

The Academic Review is a one- to two-hour meeting with three faculty members of the English Graduate Faculty. At least two members come from the student's concentration. The Review covers the student's academic progress in doctoral coursework, two unrevised course papers, and a list of 20-25 books chosen by the student in consultation with the reviewers. See the English Graduate Program Handbook for further details regarding the Academic Review. Applicants should contact the Graduate Program Office for additional information and deadlines.

Credits and Courses
The Ph.D. program requires 54 credits beyond the B.A. (55 for Rhetoric and Composition, 56 for Literature and Cultural Theory), including no more than 27 credits earned at the master's level. Course distribution requirements vary according to the doctoral concentration a student enters.

Doctoral Concentration
Students applying to the English doctoral program must indicate their preference for one of the following doctoral concentrations: Literature and Cultural Theory; Rhetoric and Composition; Creative Writing; Professional and Technical Writing; Media, Cinema, and Digital Studies. The Director of Graduate Studies and a Program Coordinator for each concentration provide initial advising for the student in course enrollment and in selecting a Major Professor for long-term advising. Although a continuing doctoral student can change concentrations, such changes require approval by the Coordinator of the new concentration and the Director of Graduate Studies, and may require a substantial amount of additional coursework.

Because course requirements change frequently, students should regularly consult with Program Coordinators or the Director of Graduate Studies regarding doctoral concentration requirements. The following listings reflect current curricular requirements:

<table>
<thead>
<tr>
<th>Literature and Cultural Theory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
</tr>
<tr>
<td>Select 9 credits in literature courses outside the field of emphasis (at least 3 credits pre-1800)</td>
</tr>
<tr>
<td>Select 9 credits in cultural theory</td>
</tr>
<tr>
<td>Select 9 credits in field of emphasis</td>
</tr>
<tr>
<td>Select one of the following:</td>
</tr>
</tbody>
</table>

University of Wisconsin-Milwaukee
ENGLISH/HIST/MALLT 740 Approaches to the Modern I

ENGLISH/HIST/MALLT 741 Approaches to the Modern II

Select 24 credits of electives 24

ENGLISH 703 Introduction to Graduate Studies in Literature (taken during the first semester) 1

ENGLISH 820 Seminar in Advanced Topics in Literary Criticism and Research 1

Total Credits 56

1 Primary field of emphasis must be declared prior to submitting the prelim proposal and field lists to the Graduate Program Committee. Field of emphasis will be selected from among those designated by Plan A to be available on the Literature and Cultural Theory Web page.

All credits must be 600-level or above, with no more than 6 credits at the 600 level. Doctoral students may not accumulate more than 6 credits of independent study. (ENGLISH 701 must be counted as elective.)

Rhetoric and Composition

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 701</td>
<td>Writing Pedagogies</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 750</td>
<td>History of Rhetoric and Writing Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 751</td>
<td>History of Rhetoric II:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 755</td>
<td>Issues in Writing Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 6 additional credits in 700-level rhetoric and composition courses</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 15 credits in 800-level seminars, 12 of which must be in rhetoric and composition</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select 24 credits of electives</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>55</td>
</tr>
</tbody>
</table>

Additional Requirements

- Two terms (as defined by the employing institution) of demonstrated teaching experience in first-year college composition.
- Minimum of one term (as defined by the employing institution) of teaching experience in basic, intermediate, or advanced composition.
- Portfolio of teaching materials for at least two composition courses, plus a teaching statement to be submitted and approved by the Graduate Rhetoric and Composition Advisory Committee at least two semesters before the expected graduation date.
- One course is strongly recommended in each of the following areas: Computers and Pedagogy (English at the 700 level), Research Methods

Creative Writing

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory:</td>
<td>6</td>
</tr>
<tr>
<td>&amp; ENGLISH 815</td>
<td>and Seminar in Fiction Writing:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 716</td>
<td>Poetic Craft and Theory:</td>
<td></td>
</tr>
<tr>
<td>&amp; ENGLISH 816</td>
<td>and Seminar in Poetry Writing:</td>
<td></td>
</tr>
</tbody>
</table>

Select 21 credits at the graduate level in literature and cultural theory, rhetoric and composition, professional writing, and/or media, cinema, and digital studies 21

Select 15 credits in creative writing 700-level or above courses 15

Select 12 credits of electives 12

Total Credits 54

All credits must be 600-level or above, with no more than 6 credits at the 600 level. Doctoral students may not accumulate more than 6 credits of ENGLISH 999.

Professional Writing

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 706</td>
<td>Seminar in Professional Writing Theory and Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 713</td>
<td>Qualitative Research in Writing and Literacy</td>
<td>3</td>
</tr>
</tbody>
</table>

Professional Writing

Select 6 credits in English 700-level or 400-level U/G courses 6

Select 15 credits in English 800-level courses (with the advisor’s approval, a student may take credits in related areas) 15

Electives

Select 24 credits of electives 24

Total Credits 54

Media, Cinema, and Digital Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 742</td>
<td>Media Culture</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 876</td>
<td>Seminar in Media Culture: (Subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 12 credits in 800-level digital culture (theory, criticism or writing), film and/or media 12

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 705</td>
<td>Public Rhetorics and Community Engagement Colloquium</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 711</td>
<td>Topics in Professional Writing: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 714</td>
<td>Usability Studies</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 715</td>
<td>Narrative Craft and Theory: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 720</td>
<td>Modern Literary Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 737</td>
<td>Literature and Aesthetics</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/MALLT 740</td>
<td>Approaches to the Modern I</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/HIST/MALLT 741</td>
<td>Approaches to the Modern II</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 743</td>
<td>Film Studies: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 753</td>
<td>Contemporary Rhetorical Theory</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 775</td>
<td>Modern English Literature: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 700</td>
<td>Teaching Film Studies: (Subtitle)</td>
<td></td>
</tr>
</tbody>
</table>
Doctoral Preliminary Examination

The doctoral preliminary examination consists of a written examination and an oral examination designed to demonstrate the breadth of a student’s knowledge and the ability to conduct advanced research in one or more areas of study. The written and oral examinations draw from field bibliographies with rationale (500 word maximum) prepared by the student and approved by the student’s preliminary examination committee and the advisory committee of the student's plan.

The written examination must be at least eight hours long, and it is frequently taken as a three-day, take-home, open book exam. The exam must be arranged in advance with the Director of Graduate Studies and must be taken before the preliminary examination. If a student’s Major Professor considers proficiency in more than one language necessary to the student’s specific plan of study, exams in more than one language may be required. The exam may be retaken until proficiency is attained.

Residence

The student must meet minimum Graduate School residence requirements (http://uwm.edu/graduateschool/doctoral-requirements/#residence).

General Restrictions

Doctoral students may not accumulate more than 12 credits in U/G courses and not more than 6 credits in independent study without the approval of the Director of Graduate Studies. No more than 18 credits may be taken in courses outside the Department.

Advising

Students are required to consult periodically with their Major Professor. The Major Professor helps the student to define an area of special interest within the concentration for the preliminary examination. The Major Professor also assists the student in the selection of appropriate coursework and may chair the Preliminary Examination Committee.

Foreign Language Requirement

All Ph.D. candidates are required to demonstrate proficiency (reading knowledge) in a foreign language. The choice of a language must be approved by the student’s advisor. If a student has not met this requirement in other ways (see English Graduate Program Handbook), a student must pass a two-hour written examination in the translation of a piece of literature or criticism. A student may use a dictionary and/or grammar book. The exam must be arranged in advance with the Director of Graduate Studies and must be taken before the preliminary examination. If a student’s Major Professor considers proficiency in more than one language necessary to the student’s specific plan of study, exams in more than one language may be required. The exam may be retaken until proficiency is attained.

Dissertation

The dissertation topic, together with a brief prospectus, must be approved by the Graduate Policy Committee. The student’s major professor or a member of the dissertation committee must present the topic and prospectus to the Graduate Policy Committee. See the Director of Graduate Studies and the English Graduate Program Handbook (http://uwm.edu/english/graduate/graduate-resources/grad-handbook) for specific guidelines for selecting a doctoral committee and preparing the dissertation proposal. The Department considers 200 pages a reasonable length for the dissertation.

Dissertation Defense

The completed dissertation is subject to an oral defense, to be arranged by the Coordinator according to Graduate School regulations. A copy of the dissertation is kept in the Department office.

Time Limit

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

For additional information see the Graduate School Ph.D. requirements (http://uwm.edu/graduateschool/doctoral-requirements).

Professional Writing and Communication, Graduate Certificate

The Professional Writing and Communication Graduate Certificate is designed for post-baccalaureate students seeking professional training and education to advance their careers.

The Certificate is a joint offering by the Professional Writing Program in the Department of English and the Department of Communication. It is a popular option for anyone seeking academic credentials and will qualify graduates to compete for jobs involving writing or communication or for advancement opportunities at their current places of employment.

There is no single “typical” certificate student, but many of our students are:

- BA/BS graduates in a major other than English or Communication with little or no related work experience in writing who are seeking a change in their job or career.
- Happy with their current employer, but hoping to qualify for more writing and communication responsibilities or for promotional opportunities that might involve project management, assessment, training, and other activities that require writing or communications experience.
- Seeking specialized and current instruction in writing or communication to qualify for more jobs or assist their employer in keeping up with current technologies, concepts, and standards in professional writing or communication.

It's possible to complete all the Certificate courses online, but many students also choose to take both online and face-to-face courses to complete their Certificate.
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Eligibility and Admission
Students must have completed a bachelor's degree with a minimum GPA of 2.75.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted to a certificate program.
• In addition, send the following items directly to the Department of English:
  a. A portfolio of writing samples.
  b. Two letters of recommendation from persons knowledgeable about applicants’ recent academic or work experience.
  c. A statement of purpose that identifies the applicants’ knowledge of workplace communication practices and business operations, their professional experience, or basic undergraduate coursework in business writing, technical writing, and communication.
  d. A statement describing the applicants’ access to and operational knowledge of online communication technology, including a PC or equivalent computer system with Internet access and other applications sufficient to participate in the program’s online learning activities.
  e. An unofficial transcript from each undergraduate and graduate institution attended.

1 Mailing Address: Department of English, Attn: Certificate Program, UWM, P.O. Box 413, Milwaukee, WI 53201-0413

Credits and Courses
Students must complete 15 credits of coursework as outlined below. The Certificate will be awarded when students achieve the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Communications: (Subtitle)</td>
<td>9</td>
</tr>
<tr>
<td>ENGLISH 435 or ENGLISH 708</td>
<td>Rhetoric and Professional Writing Advanced Professional Writing</td>
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<tr>
<td>ENGLISH 436</td>
<td>Technical Documentation</td>
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<tr>
<td>ENGLISH 437</td>
<td>Project Management for Professional Writers</td>
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<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 443</td>
<td>Grant Writing</td>
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<tr>
<td>ENGLISH 444</td>
<td>Technical Editing</td>
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<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
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<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
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<tr>
<td>ENGLISH 710</td>
<td>Advanced Project Management for Professional Writers</td>
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<tr>
<td>ENGLISH 711</td>
<td>Topics in Professional Writing: (Subtitle)</td>
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<tr>
<td>ENGLISH 712</td>
<td>Theories in Public Rhetorics and Community Engagement</td>
<td></td>
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<tr>
<td>ENGLISH 713</td>
<td>Qualitative Research in Writing and Literacy</td>
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Select two of the following: 6

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>COMMUN 550</td>
<td>International and Global Communication</td>
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<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
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<tr>
<td>COMMUN 710</td>
<td>Managerial Communication</td>
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</tr>
<tr>
<td>COMMUN 762</td>
<td>Argumentation in Theory and Practice</td>
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<tr>
<td>COMMUN 772</td>
<td>Rhetorical Leadership and Ethics</td>
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<tr>
<td>COMMUN 810</td>
<td>Studies of Communication in Organizations</td>
<td></td>
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<tr>
<td>COMMUN 813</td>
<td>Seminar in Mediated Communication</td>
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<tr>
<td>COMMUN 815</td>
<td>Communication Technologies in Organizations</td>
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<tr>
<td>COMMUN 820</td>
<td>Communication in Customer Service Settings</td>
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<tr>
<td>COMMUN 823</td>
<td>Seminar in Small Group Communication</td>
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<tr>
<td>COMMUN 827</td>
<td>Seminar in Instructional Communication</td>
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<tr>
<td>COMMUN 830</td>
<td>Negotiation</td>
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<tr>
<td>COMMUN 865</td>
<td>Theory and Practice of Mediation</td>
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<tr>
<td>COMMUN 873</td>
<td>The Digital Mirror</td>
<td></td>
</tr>
<tr>
<td>COMMUN 893</td>
<td>Rhetoric of/and the Internet</td>
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</tbody>
</table>

Total Credits 15

1 Students who within the past five years have successfully completed courses equivalent to these required English courses may, with the approval of the Certificate Coordinator, substitute alternate English graduate courses.

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

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

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
• All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)

• Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:

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

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

**Contact Information**
dclark@uwm.edu

http://uwm.edu/techcom/
ENGLISH AS A SECOND LANGUAGE

English for Academic Purposes Courses

EAP 100 Introduction to College Writing for Multilingual Students
4 cr. Undergraduate.
Opportunities for multilingual students to improve their analytical reading and academic writing skills while offering intensive language work and individualized instruction.
Prerequisites: English Placement Test for Non-Native Speakers of English (EPT-NNSE) Score of 2, ESL-PIC score of 1, 2, or 3, or Grade of C or better in EAP 115(P) or 116(P) or 110(P).
Course Rules: Counts as repeat of 4 cr of combined EAP 116 & 117.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

EAP 101 College Writing for Multilingual Students/English 101
3 cr. Undergraduate.
Prepares and qualifies multilingual writers for English 102. Writing analytical essays based on academic reading.
Prerequisites: English Placement Test for Non-Native Speakers of English (EPT-NNSE) Score of 3 or ESL-PIC score of 4 or Grade of C or better in EAP 117(P) or grade of C or better in English 100(P) or EAP 100(P).
Course Rules: Counts as repeat of EAP 118.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

EAP 105 Skills for Academic Reading Success
3 cr. Undergraduate.
Introduces ESL students to academic reading strategies and builds basic reading competence in English. Uses high-interest materials to invite engaging class discussions.
Prerequisites: ESL-PIC score of 0.
Course Rules: Open only to students who are non-native speakers of English.
Last Taught: Spring 2016, Fall 2015.
Current Offerings: [link]

EAP 110 College Reading and Writing Skills for Multilingual Students
4 cr. Undergraduate.
Opportunities for multilingual students to develop reading comprehension and critical reading skills along with basic composition skills, including individualized, grammar-based instruction.
Prerequisites: English Placement Test for Non-Native Speakers of English (EPT-NNSE) Score of 1 or self-placement.
Course Rules: Counts as repeat of 4 cr of EAP 105 & 115.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

EAP 115 Basic Writing in English as a Second Language
6 cr. Undergraduate.
Introduction to academic writing practices. Intensive grammar review and vocabulary expansion with individualized instruction. Extensive reading and writing.
Prerequisites: score at level 1 on ESL-PIC test.
Course Rules: For non-native speakers of English. No cr for students with cr in EAP 116.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: [link]

EAP 116 Introduction to College Writing in English as a Second Language
6 cr. Undergraduate.
Rigorous introduction to academic writing practices, including reading-based writing. Thorough review of grammar, with individualized instruction. Extensive reading and writing.
Prerequisites: score at level 2 on ESL-PIC test; or grade C or better in EAP 115(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: [link]

EAP 117 College Writing in English as a Second Language
6 cr. Undergraduate.
Guidance in analytical reading and academic writing plus intensive language work, with individualized instruction. Extensive reading and writing.
Prerequisites: score at level 3 on ESL-PIC test; or grade C or better in EAP 116(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: [link]

EAP 118 Advanced College Writing in English as a Second Language/English 101
3 cr. Undergraduate.
Prepares and qualifies ESL writers for English 102. Writing analytical essays based on academic reading.
Prerequisites: score at level 4 on ESL-PIC test; or grade C or better in EAP 117(P); or grade B or better in EAP 116(P) & cons instr.
Course Rules: Counts as repeat of English 101.
Last Taught: Summer 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: [link]

EAP 120 Grammar and Editing in English for Multilingual Students
3 cr. Undergraduate.
Grammar instruction and writing. Individual feedback given in conferences with instructor.
Prerequisites: none.
Course Rules: Open only to undergraduates who are non-native speakers of English.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

EAP 135 Basic Skills in Academic Listening & Speaking
3 cr. Undergraduate.
Academic presentation and lecture note-taking skill development for English learners with no previous formal instruction in these areas.
Prerequisites: none.
Course Rules: Open only to undergraduate students who are non-native speakers of English.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: [link]

EAP 145 Practice in Academic Listening and Speaking
3 cr. Undergraduate.
Academic presentation and lecture note-taking skill development for English learners with previous formal instruction in these areas.
Prerequisites: none.
Course Rules: Open only to undergraduate students who are non-native speakers of English.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]
EAP 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

EAP 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

EAP 420 Advanced Reading, Writing, and Grammar Tune-up for Internationals
4 cr. Undergraduate.
Refinement of advanced undergraduate and graduate students' language control; extensive reading, writing, and contextualized grammar; focus on American academic expectations. Intensive individual conferences.
Prerequisites: jr st.
Course Rules: May enroll in one fall and one spring term to a combined total of 8 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EAP 435 Advanced Listening, Speaking, and Notetaking Skills for Internationals
4 cr. Undergraduate.
Refinement of advanced undergraduate and graduate students' listening and speaking skills and pronunciation. Focus on American academic expectations. Intensive individual conferences target unique needs.
Prerequisites: jr st.
Course Rules: May enroll in one fall and one spring term to a combined total of 8 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

EAP 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
ETHNIC STUDIES

Rachel Buff, Professor of History, Program Coordinator, rbuff@uwm.edu

The Comparative Ethnic Studies Program offers an undergraduate major through the Committee Interdisciplinary Major, an undergraduate certificate in Comparative Ethnic Studies, and an undergraduate certificate in Hmong Diaspora Studies.

Programs

- Committee Interdisciplinary Major, BA: Comparative Ethnic Studies (p. 1277)
- Comparative Ethnic Studies, Undergraduate Certificate (p. 1282)
- Hmong Diaspora Studies, Undergraduate Certificate (p. 1284)

Ethnic Studies, Comparative Courses

ETHNIC 101 The Making of American Cultures: Africans, Europeans, and Indian Nations
3 cr. Undergraduate.
Origins and development of racial and ethnic identities in the Americas; specific attention to Wisconsin history; African-American, American Indian, Latino, Euro-American identities; relationships among them. 2 hrs lec, 1 hr dis.
Prerequisites: none.
Course Rules: Not retakable for cr; may be repeated for higher grade.
General Education Requirements: HU, CD
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ETHNIC 102 Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity
3 cr. Undergraduate.
Modern and contemporary social and cultural processes of migration and identity; role of law as 'gatekeeping'; history of nativism, interethnic relations, and community formation.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: http://uwm.edu/schedule

ETHNIC 192 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ETHNIC 193 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

ETHNIC 199 Independent Study: Lower Division
1-3 cr. Undergraduate.
For further information, consult Ethnic Studies coordinator.
Prerequisites: 2.25 gpa on at least 12 graded cr; writ cons instr & prog coord.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ETHNIC 200 Racial Minorities in the United States
3 cr. Undergraduate.
Prerequisites: none.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

ETHNIC 245 Indians, Artists, and Conquistadores: The U.S. Southwest
3 cr. Undergraduate.
Interaction of diverse Indian, European, and Latino cultures in the U.S. southwest.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ETHNIC 250 Selected Topics in Ethnic Studies:
3 cr. Undergraduate.
This course will focus on one individual ethnic group, or one particular aspect of an ethnic group.
Prerequisites: none.
Course Rules: Counts as a repeat of Ethnic 250 with similar title.
General Education Requirements: HU, CD
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ETHNIC 255 Migration and Gender: Starbucks, Sex Trafficking, and Nannies
3 cr. Undergraduate.
Changing roles of women in the global marketplace; effects of migration on gender and family life.
Prerequisites: none.
Course Rules: Counts as a repeat of Ethnic 250 with similar title.
General Education Requirements: HU, CD
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ETHNIC 265 Hmong Americans: History, Culture, and Contemporary Life
3 cr. Undergraduate.
Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America.
Prerequisites: none.
Course Rules: Ethnic 265 & Hmong 265 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ETHNIC 275 Queer Migrations
3 cr. Undergraduate.
How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities.
Prerequisites: none.
Course Rules: No cr for students w/cr in Ethnic 250 w/similar topic. Ethnic 275 & LGBT 275 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ETHNIC 285 Cultures of Contemporary Russia
3 cr. Undergraduate.
Ethnic conflict and struggles over language, territory, culture, and politics after the dissolution of the Soviet Union.
Prerequisites: none.
Course Rules: Counts as a repeat of Ethnic 250 w/similar title.
Current Offerings: http://uwm.edu/schedule

ETHNIC 289 Internship in Ethnic Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of ethnic studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in ethnic; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ETHNIC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ETHNIC 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ETHNIC 325 Gender, Race, and Ethnicity in Milwaukee:
3 cr. Undergraduate.
Influxes into the U.S. of migrants from Europe, Latin America, and elsewhere; evolution of conflict and division; particular attention to Civil Rights and deindustrialization.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max.
General Education Requirements: CD, HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ETHNIC 350 Advanced Topics in Comparative Ethnic Studies:
3 cr. Undergraduate.
Various advanced topics in the field of comparative ethnic studies.
Prerequisites: Ethnic 101(P); 102(P), or 250(P), or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2011, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ETHNIC 355 Muslims and American Popular Culture
3 cr. Undergraduate.
History of Muslims in American pop culture; sub-cultures of various Muslim ethnic groups from the perspective of film, literature, and music.
Prerequisites: jr st or Ethnic 101(P) or 102(P).
Last Taught: Fall 2009.
Current Offerings: http://uwm.edu/schedule

ETHNIC 360 Villainy, Sex, & Blood: Race, Gender & Ethnicity in Pop Culture
3 cr. Undergraduate.
Exploration of the ways in which popular culture creates, maintains, and challenges notions of race, gender, and ethnicity throughout the American historical experience.
Prerequisites: jr st.
Course Rules: Counts as a repeat of Ethnic 250 w/ similar topic.
Current Offerings: http://uwm.edu/schedule

ETHNIC 375 Global Violence, Disease, and Death
3 cr. Undergraduate.
Development schemas, health policies, and the role of international organizations in global incidents of suffering, violence, and death.
Prerequisites: jr st or Ethnic 101(P) or 102(P).
Current Offerings: http://uwm.edu/schedule

ETHNIC 489 Internship in Ethnic Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of ethnic studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in ethnic stds; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Summer 2014.
Current Offerings: http://uwm.edu/schedule
ETHNIC 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ETHNIC 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ETHNIC 550 Senior Seminar in Comparative Ethnic Studies:
3 cr. Undergraduate.
Focus on specific aspects (social, cultural) of ethnic and racial identity, based on readings and presentation of original student research.
Prerequisites: sr st; cons instr.
Course Rules: Topic varies; not retakable for cr. May be repeated for higher grade. Satisfies L&S Seminar req.
Current Offerings: http://uwm.edu/schedule

ETHNIC 699 Advanced Independent Work
1-3 cr. Undergraduate.
See Independent Study. For further information consult Ethnic Studies coord.
Prerequisites: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

Hmong Studies Courses

HMONG 107 First-Semester Hmong Literacy
3 cr. Undergraduate.
Introduction to literacy skills in Hmong. Intended for speakers of Hmong.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HMONG 108 Second-Semester Hmong Literacy
3 cr. Undergraduate.
Continuation of Hmong 107(FLL 107/Linguis 161).
Prerequisites: Hmong 107(FLL 107/Linguis 161)(P).
Current Offerings: http://uwm.edu/schedule

HMONG 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: CD, HU
Current Offerings: http://uwm.edu/schedule

HMONG 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

HMONG 199 Independent Study:
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult the program director. Students must submit a study proposal.
Prerequisites: 2.5 GPA; writ cons instr, prog dir, & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule

HMONG 265 Hmong Americans: History, Culture, and Contemporary Life
3 cr. Undergraduate.
Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America.
Prerequisites: none.
Course Rules: Ethnic 265 & Hmong 265 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

HMONG 289 Internship in Hmong Studies, Lower Division:
1-6 cr. Undergraduate.
Application of basic principles of Hmong Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa, cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule
HMONG 296 UROP Apprenticeship:
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with
a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any
combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

HMONG 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course
work levels, content, and credits are determined and/or in specially-
prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

HMONG 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Requires only program dir & assoc dean approval. In
exceptional circumstances, can be offered in one add'l sem. Retakable w/
chg in topic.
Current Offerings: http://uwm.edu/schedule

HMONG 489 Internship in Hmong Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Hmong Studies in business,
organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 GPA, cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in
internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

HMONG 496 Advanced UROP Apprenticeship:
1-3 cr. Undergraduate.
Advanced undergraduate research participation in a project developed
with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior UROP apprenticeship or equiv
rsch experience.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any
combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

HMONG 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course
work levels, content, and credits are determined and/or in specially-
prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: UWinteriM 2018.
Current Offerings: http://uwm.edu/schedule

HMONG 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Requires only program dir & assoc dean approval. In
exceptional circumstances, can be offered in one add'l sem. Retakable w/
chg in topic.
Current Offerings: http://uwm.edu/schedule

HMONG 699 Advanced Independent Study:
1-3 cr. Undergraduate.
Advanced level independent work under supervision of a Hmong Studies
faculty or academic staff member. Students must submit a study
proposal.
Prerequisites: jr st; 2.50 GPA; cons supervising instr, program coord, &
assst dean of SAS
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

Committee Interdisciplinary Major,
BA: Comparative Ethnic Studies

Comparative Ethnic Studies is an interdisciplinary field that examines
issues of social identity and power, in contemporary and historical
contexts. The field centers on questions of race, gender, and sexuality.
Students are free to select from a range of courses in the Ethnic Studies
program, and to include coursework they do from around the university
their academic programs.

Unique to UWM, our program offers courses covering the Hmong
diaspora. Wisconsin is home to the third largest Hmong American
population in the US, making UWM a great place to learn about this
population.

The Committee Interdisciplinary Major with a focus in Comparative Ethnic
Studies is also one of a handful of majors that requires an internship prior
to graduation, thereby ensuring that students leave college with hands-
on experience from the local community. The program is administered by
the College of Letters and Science interdepartmental Comparative Ethnic
Studies Advisory Committee.

A certificate in Comparative Ethnic Studies is also available for students
seeking something closer to a minor.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA Degree Requirements (p. 1277)</td>
<td></td>
<td>58-77</td>
</tr>
<tr>
<td>Major Requirements (p. 1279)</td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>10-29</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters &
Science and with 36 of the 90 credits in L&S upper-level (numbered
above 300) courses. The College requires that students must complete
in residence at UWM at least 15 credits in upper-division (numbered 300
or above) courses in their major. Students are also required to complete
University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arts</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Humanities</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Social Sciences</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Natural Sciences</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### College of Letters & Science Requirements

#### I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

#### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

   **Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

   **Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

#### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement.
requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Completed in one of the following ways:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
</tr>
</tbody>
</table>

**Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.**

**Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.**

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

### Major Requirements

The Committee Interdisciplinary Major submajor in Comparative Ethnic Studies requires completion of at least 33 credits in approved Comparative Ethnic Studies and Comparative Ethnic-related courses. Students may count towards the major a maximum of 9 credits in a single curricular area outside of Comparative Ethnic Studies. A minimum of 18 credits must be completed in L&S courses, and at least 15 credits must be at the upper-division level (courses numbered 300 and above) taken in residence at UWM. Completion of the College’s research experience in the major is required. ETHNIC 550 or another suitable course approved by the coordinator satisfies this requirement. Students must attain at least a 2.500 GPA on all major credits attempted at UWM. In addition, the College requires that students earn a 2.500 GPA on all credits in the major, including transfer work.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Survey</td>
</tr>
<tr>
<td>ETHNIC 101</td>
<td>The Making of American Cultures: Africans, Europeans, and Indian Nations</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 102</td>
<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Comparative Methods</td>
</tr>
<tr>
<td>ETHNIC 275</td>
<td>Queer Migrations</td>
<td></td>
</tr>
<tr>
<td>ETHNIC 350</td>
<td>Advanced Topics in Comparative Ethnic Studies: (subtitle)</td>
<td></td>
</tr>
<tr>
<td><strong>150</strong></td>
<td>Multicultural America</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Track Electives</td>
</tr>
<tr>
<td></td>
<td>Select option A or B below</td>
<td>18</td>
</tr>
<tr>
<td>ETHNIC 489</td>
<td>Internship in Ethnic Studies, Upper Division</td>
<td>3</td>
</tr>
</tbody>
</table>
Capstone

ETHNIC 550 Senior Seminar in Comparative Ethnic Studies: 3

Total Credits 33

1 Students may count a maximum of three courses from this group toward the major requirements.

2 Offered in the following curricular areas: Anthropology, Art, English, Film, History, Sociology, Urban Studies, Women’s and Gender Studies.

Track Electives

A. Hmong Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNIC/HMONG</td>
<td>Hmong Americans: History, Culture, and Contemporary Life</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select nine additional credits in consultation with the Program Coordinator</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Credits 18

B. Student-Created Focus

Students complete 18 credits selected in consultation with the coordinator from the list of approved courses.

Approved Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 100</td>
<td>Black Reality: Survey of African-American Society</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 102</td>
<td>Survey of African-American Literature</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 111</td>
<td>Introduction to African-American History to 1865</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 112</td>
<td>Introduction to African-American History, 1865 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 125</td>
<td>Economics of the Black Community</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 163</td>
<td>African-American Concept of Self</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 210</td>
<td>The African-American Novel</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 215</td>
<td>Introduction to Black Social and Cultural Traditions</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 235</td>
<td>African Americans and South Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 250</td>
<td>Black Women and White Women in the Contemporary United States</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 261</td>
<td>Survey of African-American Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 300</td>
<td>Urban Violence</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 312</td>
<td>The Church in African-American Life</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 314</td>
<td>The School in African-American Life</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 319</td>
<td>African American Urban History</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 322</td>
<td>Order and Disorder: The Quest for Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 334</td>
<td>Survey of Black American and Black Brazilian Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 341</td>
<td>Black Politics and City Government</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 344</td>
<td>Global Black Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 350</td>
<td>The Black Family</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 369</td>
<td>Black Images and Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 372</td>
<td>African-American Literary Movements: The Harlem Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 411</td>
<td>Change in African-American Communities</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 412</td>
<td>Blacks and the United States Constitution</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 414</td>
<td>The Black Woman in America, Africa, and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 416</td>
<td>Race and Social Justice in the United States</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 417</td>
<td>Race, Class and Gender in Southern Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 418</td>
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<td>SOCIOL 423</td>
<td>Latino Immigration and Incorporation:</td>
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**Learning Outcomes**

Students who complete the major will be able to do the following:

- Discuss the complexities of social identity for public policy as well as cultural formations;
• Provide interdisciplinary explanations for historical and contemporary conflicts based in race, ethnicity, gender, and sexuality, and
• Identify and assess different theoretical frameworks for explaining social change and relationships between actors, institutions, and ideas of identity.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Professor Rachel Buff, rbuff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/comparative-ethnic-studies/undergraduate/

Comparative Ethnic Studies, Undergraduate Certificate

Comparative Ethnic Studies is an interdisciplinary field that examines issues of social identity and power, in contemporary and historical contexts. The field centers on questions of race, gender, and sexuality. Students are free to select from a range of courses in the Ethnic Studies program, and to include coursework they do from around the university their academic programs. The program is administered by the College of Letters and Science interdepartmental Comparative Ethnic Studies Advisory Committee.

Unique to UWM, our program offers courses covering the Hmong diaspora. Wisconsin is home to the third largest Hmong American population in the U.S., making UWM a great place to learn about this population.

The Undergraduate Certificate program in Comparative Ethnic Studies is also available for students seeking something closer to a minor. Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Certificate in Comparative Ethnic Studies is open to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements.

Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements.

Requirements

To receive the certificate, the student must earn a minimum of 21 credits as stated below, at least 12 from UWM, with a grade point average of 2.750 or better. A minimum of 9 credits must be earned in upper-division (numbered 300 and above) courses. At least 18 credits must be taken in the Ethnic curricular area; the other 3 credits may be selected from the approved list of elective courses. Students may discuss their specific
Courses for the certificate must include the following:

Students interested in the undergraduate certificate should register with the Comparative Ethnic Studies Program Coordinator by the beginning of their junior year, at the latest.

Substitutions for credits in the Ethnic curricular area are subject to the approval of the Program Coordinator.

### Code | Title | Credits
--- | --- | ---
ETHNIC 101 | The Making of American Cultures: Africans, Europeans, and Indian Nations | 3
ETHNIC 102 | Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity | 3
ETHNIC 550 | Senior Seminar in Comparative Ethnic Studies: | 3

**Electives**

Select 12 credits | 12

Total Credits | 21

### Approved Electives

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<td>Survey of African-American Literature</td>
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<td>Introduction to African-American History to 1865</td>
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<td>Economics of the Black Community</td>
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<td>The African-American Novel</td>
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<td>Introduction to Black Political Economy</td>
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<td>Black Women and White Women in the Contemporary United States</td>
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AFRICOL 416 | Race and Social Justice in the United States                       | 3       |
AFRICOL 420 | The Political Economy of Slavery                                   | 3       |
AIS 105   | Anishinaabe Ethnobotany: Plants in Anishinaabe Culture              | 3       |
AIS 106   | Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy           | 3       |
AIS 262   | North American Indian History to 1887                               | 3       |
AIS 263   | North American Indian History Since 1887                           | 3       |
AIS 276   | Introduction to American Indian Literature:                        | 3       |
AIS 314   | American Indian Societies and Cultures                             | 3       |
AIS 320   | Social Change in American Indian Societies                          | 3       |
AIS 321   | Contemporary Issues of the American Indian                        | 3       |
AIS 372   | Survey of American Indian Literature                               | 3       |
AIS 473   | History of Wisconsin Indians                                      | 3       |
AIS 474   | Topics in North American Indian History:                           | 3       |
AIS 520   | Studies in American Indian Literature:                             | 3       |
ANTHRO 150 | Multicultural America                                             | 3       |
ANTHRO 213 | American Indian Peoples of Wisconsin                               | 3       |
ANTHRO 314 | American Indian Societies and Cultures                             | 3       |
ANTHRO 335 | American Indians of the Southeast                                 | 3       |
ANTHRO 565 | Seminar in Regional Archaeology (Great Lakes Late Prehistory)     | 3       |
ANTHRO 641 | Seminar in Anthropology. (American Indian Material Culture)       | 3       |
ARABIC 164 | Arabs and Islam in America                                         | 3       |
ARTHIST 355 | American Folk Art                                                       | 3       |
ECON 248  | Economics of Discrimination                                        | 3       |
ED POL 561 | Education Issues in American Indian Communities                    | 3       |
ED POL 579 | Current Topics in Cultural Foundations of Education: (Anti-Racist Education) | 1-6 |
ED POL 621 | History of Native Education and Policy Development                | 3       |
ED POL 625 | Race Relations in Education                                        | 3       |
ENGLISH 150 | Multicultural America                                             | 3       |
ENGLISH 276 | Introduction to American Indian Literature:                        | 3       |
ENGLISH 277 | Introduction to Ethnic Minority Literature:                        | 3       |
ENGLISH 280 | Introduction to Asian-American Literature:                        | 3       |
ENGLISH 281 | Introduction to African-American Literature:                       | 3       |
ENGLISH 372 | Survey of American Indian Literature                               | 3       |
ENGLISH 373 | Survey of Ethnic Minority Literature                               | 3       |
ENGLISH 374 | Survey of U.S. Latino/a Literature                                 | 3       |
ENGLISH 375 | Survey of Asian American Literature                               | 3       |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 376</td>
<td>Survey of African-American Literature to 1930</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 377</td>
<td>Survey of African-American Literature, 1930 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 463</td>
<td>Writers in African-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 517</td>
<td>Studies in African-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 520</td>
<td>Studies in American Indian Literature:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 521</td>
<td>Studies in Ethnic Minority Literature:</td>
<td>3</td>
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<tr>
<td>ENGLISH 523</td>
<td>Studies in U.S. Latino/a Literature:</td>
<td>3</td>
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<tr>
<td>ENGLISH 524</td>
<td>Studies in Asian-American Literature:</td>
<td>3</td>
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<tr>
<td>ENGLISH 624</td>
<td>Seminar in Modern Literature: (After Beckett - Contemporary Anglo-American Drama)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 631</td>
<td>Seminar in African-American Literature:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 632</td>
<td>Seminar in American Indian Literature:</td>
<td>3</td>
</tr>
<tr>
<td>FILM 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 114</td>
<td>Geography of Race in the United States</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 341</td>
<td>Undergrad Seminar in German-Amer Studies: Germans in Wisconsin &amp; Milwaukee</td>
<td>3</td>
</tr>
<tr>
<td>HIST 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 229</td>
<td>History of Race, Science, and Medicine in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 262</td>
<td>North American Indian History to 1887</td>
<td>3</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887</td>
<td>3</td>
</tr>
<tr>
<td>HIST 267</td>
<td>The History of Latinos in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 404</td>
<td>Topics in American History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 435</td>
<td>Ethnic America: To 1880</td>
<td>3</td>
</tr>
<tr>
<td>HIST 436</td>
<td>Immigrant America Since 1880</td>
<td>3</td>
</tr>
<tr>
<td>HIST 445</td>
<td>African Americans from Slavery to Freedom</td>
<td>3</td>
</tr>
<tr>
<td>HIST 446</td>
<td>African Americans Since the Civil War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 473</td>
<td>History of Wisconsin Indians</td>
<td>3</td>
</tr>
<tr>
<td>HIST 474</td>
<td>Topics in North American Indian History:</td>
<td>3</td>
</tr>
<tr>
<td>HMONG 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 242</td>
<td>Topics in Italian American Studies:</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 243</td>
<td>Topics in Italian American Film:</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 101</td>
<td>Jewish Culture in America: History, Literature, Film</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 450</td>
<td>Race and Ethnicity in the Media</td>
<td>3</td>
</tr>
<tr>
<td>LATINO 101</td>
<td>Introduction to Latino Studies</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 271</td>
<td>Philosophical Traditions: (Western Great Lakes American Indian Philosophy)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 215</td>
<td>Ethnicity, Religion and Race in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 193</td>
<td>First-Year Seminar.</td>
<td>3</td>
</tr>
</tbody>
</table>

**Hmong Diaspora Studies, Undergraduate Certificate**

The Hmong Diaspora Studies undergraduate certificate program provides students with a multidisciplinary perspective on Hmong history, culture, and contemporary life.

Wisconsin and the upper Midwest are home to large concentrations of Hmong Americans, making this area of study particularly relevant to UWM students. Political unrest and international wars forced many Hmong from Laos to leave their native land during the last quarter of the twentieth century and seek refuge in foreign nations. Hmong populations can now be found throughout the Americas, Asia, Europe, and Oceania. Each area has its own distinct social, cultural, economic, and political conditions.

The certificate program includes courses about Hmong history, language, and culture, as well as classes that discuss the societal differences encountered by Hmong people. The certificate complements many different types of majors and is valuable for individuals who intend to work with the Hmong population in careers such as social work, education, public administration, law, journalism, international affairs, travel and hospitality, and global business.

UWM students have in recent years traveled to Laos, Thailand, and Vietnam to complement their classroom experience with a study abroad trip.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

**Eligibility**

The Hmong Diaspora Studies Undergraduate Certificate is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted as a non-degree student, the individual must meet regular UWM admission requirements. Students currently involved in baccalaureate studies who successfully complete
the requirements of the program will be awarded the certificate at the
time of graduation. Students who already have a bachelor’s degree and
non-degree students will receive the certificate upon completion of the
program requirements.

Requirements
To obtain the certificate, the student must complete, with a minimum
grade point average of 2.500, at least 18 credits in approved Hmong
diaspora studies courses as indicated below. Of the 18 required credits,
12 must be taken in the College of Letters and Science, and at least six of
them should be at the 300 level or above. No more than nine credits from
any one curricular area may count toward the certificate. Twelve of the 18
required credits must be earned in residence at UWM. Of these 12 credits,
ine must be taken at the 300 level or above. A maximum of six credits in
independent study may count toward program requirements. Courses for
the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on Hmong cultural groups may be
accepted with the approval of the certificate program committee. Other
courses that are not on the lists below but relevant to the study of Hmong
people in the US and other parts of the world may be accepted with the
approval of the certificate program committee.

Credits earned at other institutions equivalent to courses in the
certificate program may be accepted in partial fulfillment of the program
requirements with the approval of the certificate program committee.
Students currently enrolled at UWM who have fulfilled some of the
program’s requirements prior to the creation of the program may have
their credits applied retroactively to the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNIC/ HMONG 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life</td>
<td>3</td>
</tr>
<tr>
<td>Select one semester of Hmong language and/or literacy</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 402</td>
<td>Topics in Asian History: (with appropriate subtitle; consult Program Coordinator)</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 9 credits from the list of approved courses 1 9
Total Credits 18

1 At least 6 of which must be selected from courses with a primary
focus on Hmong cultural groups.

Approved Elective Courses

Primary Focus on Hmong Cultural Groups

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 192</td>
<td>First-Year Seminar: (Hmong American Life Stories)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 277</td>
<td>Introduction to Ethnic Minority Literature: (Hmong-American Literature)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 350</td>
<td>Advanced Topics in Comparative Ethnic Studies: (Hmong Diasporic Communities)</td>
<td>3</td>
</tr>
</tbody>
</table>

Secondary Focus on Hmong Cultural Groups

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 150</td>
<td>Multicultural America 1</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 250</td>
<td>Women’s Roles in Cross-Cultural Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 386</td>
<td>Art, Ritual, and Ethnicity of China</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 150</td>
<td>Multicultural America 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 192</td>
<td>First-Year Seminar: (Southeast Asian American Life Stories)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 102</td>
<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 150</td>
<td>Multicultural America 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 372</td>
<td>Topics in Global History: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 402</td>
<td>Topics in Asian History: (with appropriate subtitle) (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 436</td>
<td>Immigrant America Since 1880</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 150</td>
<td>Multicultural America 1</td>
<td>3</td>
</tr>
<tr>
<td>WGS 150</td>
<td>Multicultural America 1</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Students may count credits in just one of these courses toward the
certificate.

Contact Information

Current Students contact Professor Chia Vang, vangcy@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/hmong-diaspora-studies/
The College of Letters and Science offers a unique major and minor in Film Studies. Our interdisciplinary programs are founded on a broad, international perspective on film, television, popular culture, and media forms, texts, and global industries.

After completing the required introductory courses in history, formal analysis, and theory, film studies students explore a variety of advanced topics including world cinema, the internet and media culture, theories of mass culture, film and literature, writing on film and television, classical and contemporary film theory, television criticism and theory, film genres, and other special topic courses to suit their interests and concentrations. In addition to courses stressing cultural, historical, and theoretical approaches, students can take advantage of a range of resources and opportunities to explore and deepen their understanding of contemporary and historically significant film and television, and take part in major festivals and symposia, most recently devoted to contemporary Asian cinema, Latin American and Caribbean film and culture, and global media and technology.

Programs

• Business of Media and Film Studies, Undergraduate Certificate (College of Letters and Science, Department of Film Studies) (p. 1290)
• Film Studies, BA (p. 1291)
• Film Studies, Minor (p. 1294)

Film Studies Courses

FILMSTD 111 Entertainment Arts: Film, Television, and the Internet
3 cr. Undergraduate.
History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form.
Prerequisites: none.
Course Rules: ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

FILMSTD 192 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

FILMSTD 205 History of Film I: Development of an Art
3 cr. Undergraduate.
The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.
Prerequisites: none.
Course Rules: ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FILMSTD 206 History of Film II: Development of an Art
3 cr. Undergraduate.
The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.
Prerequisites: none.
Course Rules: ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

FILMSTD 212 Intermediate Topics in Film Studies:
3 cr. Undergraduate.
Stylistic, generic, historical, or theoretical issues in film studies.
Prerequisites: soph st or English 290(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

FILMSTD 286 Writing about Film and Television
3 cr. Undergraduate.
Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: English 286 & FilmStd 286 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FILMSTD 290 Introduction to Film Studies
3 cr. Undergraduate.
Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking.
Prerequisites: none.
Course Rules: English 290 & FilmStd 290 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule
FILMSTD 291 Introduction to Television Studies  
3 cr. Undergraduate.  
The forms, images, and narratives particular to television.  
Prerequisites: none.  
Course Rules: English 291 & FilmStd 291 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 292 Classic Dramas in Film:  
1 cr. Undergraduate.  
A sampling of great plays in film versions, with performances by acclaimed actors.  
Prerequisites: none.  
Course Rules: Offered on a cr/no cr basis. Retakable w/chg in topic to 3 cr max. English 292 & FilmStd 292 are jointly offered; w/same topic, they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 293 Literature and Media:  
3 cr. Undergraduate.  
A study of novels, essays, magazines, newspapers, advertisements, and films in order to disclose similarities and differences in their use of rhetorical strategies.  
Prerequisites: soph st.  
Course Rules: Retakable w/chg in topic to 9 cr max. English 293 & FilmStd 293 are jointly offered; w/same topic, they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 294 Game Culture  
3 cr. Undergraduate.  
Critical study of games, digital and otherwise; forms, conventions, and practices that inform design and reception of games; place of games in contemporary culture.  
Prerequisites: GER OWC-A.  
Course Rules: Counts as repeat of English 380 w/same topic. English 294 & FilmStd 294 are jointly offered; they count as repeats of one another.  
Current Offerings: Fall 2017.  

FILMSTD 295 Women and Film  
3 cr. Undergraduate.  
A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture.  
Prerequisites: soph st.  
Course Rules: English 295 & FilmStd 295 are jointly offered; they count as repeats of one another.  
General Education Requirements: HU  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 297 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework.  
Prerequisites: acceptance for Study Abroad Program.  
Course Rules: Retakable w/change in topic.  
Last Taught: Fall 2016, Fall 2010, Spring 2010.  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 299 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.  
Prerequisites: none, except as required for specific topic.  
Course Rules: Retakable w/chg in topic.  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 305 Film Analysis I: Method and Theory  
3 cr. Undergraduate/Graduate.  
Film language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists.  
Prerequisites: jr st.  
Course Rules: Retakable w/chg in topic to 9 cr max. ArtHist 305 & FilmStd 305 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 306 Film Analysis II: Method and Theory  
3 cr. Undergraduate/Graduate.  
Film language, critical methods, and theory applied to selected works of major national film artists. Cross-cultural analysis of styles and themes.  
Prerequisites: jr st.  
Course Rules: Retakable w/chg in topic to 9 cr max. ArtHist 306 & FilmStd 306 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 307 Film Directors:  
3 cr. Undergraduate/Graduate.  
Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists’ work.  
Prerequisites: jr st; Arthist 205(R) or 305(R).  
Course Rules: Retakable w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another.  
Last Taught: Fall 2016.  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 308 Film Styles:  
3 cr. Undergraduate/Graduate.  
A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.  
Prerequisites: jr st.  
Course Rules: Retakable w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.  
Last Taught: Fall 2014, Spring 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule  

FILMSTD 312 Topics in Film Studies:  
3 cr. Undergraduate.  
Study of stylistic, generic, historical, or theoretical issues in film studies.  
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P).  
Course Rules: Retakable w/chg in topic to 9 cr max. English 312 & FilmStd 312 are jointly offered; w/same topic, they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule
FILMSTD 316 World Cinema:
3 cr. Undergraduate.
National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms.
Prerequisites: jr st or English 290(P); satisfaction of WOR-A.
Course Rules: Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILMSTD 320 Studies in Film Authorship:
3 cr. Undergraduate.
The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star.
Prerequisites: jr st or English 290(P); satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max. English 320 & FilmStd 320 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FILMSTD 329 Film and Literature
3 cr. Undergraduate/Graduate.
Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode.
Prerequisites: jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.
Course Rules: English 329 & FilmStd 329 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

FILMSTD 330 Film and Drama:
3 cr. Undergraduate.
Capabilities and limitations of narrative film and drama, emphasizing the distinctiveness of each artistic mode.
Prerequisites: jr st or English 290(P); satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max. English 330 & FilmStd 330 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FILMSTD 350 Global Jewish Film and Television:
3 cr. Undergraduate.
Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism.
Prerequisites: jr st.
Course Rules: FilmStd 350 & Jewish 350 are jointly offered; with the same subtitle, they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2011, Spring 2009.
Current Offerings: http://uwm.edu/schedule

FILMSTD 380 Media and Society:
3 cr. Undergraduate/Graduate.
An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary.
Prerequisites: jr st, English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2017, Spring 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FILMSTD 383 Cinema and Genre:
3 cr. Undergraduate/Graduate.
Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FILMSTD 390 Classical Film Criticism and Theory
3 cr. Undergraduate/Graduate.
Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing.
Prerequisites: jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.
Course Rules: English 390 & FilmStd 390 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FILMSTD 391 Television Criticism and Theory
3 cr. Undergraduate/Graduate.
Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.
Course Rules: English 391 & FilmStd 391 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2018, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

FILMSTD 392 Contemporary Film Criticism and Theory
3 cr. Undergraduate/Graduate.
Current issues in film criticism and theory and an exploration of critical perspectives (psychoanalysis, feminism, structuralism, post-structuralism) informing recent debates in film studies.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 392 & FilmStd 392 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule
FILMSTD 393 Entertainment Industries:
3 cr. Undergraduate.
In-depth look at contemporary media industries both in the U.S. and globally. Emphasis on changing content, production and viewing practices.
Prerequisites: jr st; satisfaction of OWC-A; English 290(P), English 291(P), or cons instr.
Course Rules: English 393 & FilmStd 393 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/change in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

FILMSTD 394 Theories of Mass Culture:
3 cr. Undergraduate/Graduate.
A survey of theories of mass culture relative to film from the late 19th century to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 394 & FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FILMSTD 395 Feminist Film Criticism and Theory:
3 cr. Undergraduate/Graduate.
Theories of representation and spectatorship that focus on the position of women in film, television, and/or video.
Prerequisites: jr st; satisfaction of GER English Composition competency req; English 295(P) or cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 395 & FilmStd 395 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FILMSTD 412 Global Cinemas - Cinematic Practices in the Context of Globalization:
3 cr. Undergraduate/Graduate.
Cinema within global transformations that reshape the way we think about film and its history; cinema’s changing impact beyond national borders.
Prerequisites: jr st or English 290(P); satisfaction of GER English Composition competency req.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2008.
Current Offerings: http://uwm.edu/schedule

FILMSTD 489 Internship in Film Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of film studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st, 300-level or above course in FilmStd; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for 40 hrs work. Retakable to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FILMSTD 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2013, Fall 2011, Fall 2010, Summer 2010.
Current Offerings: http://uwm.edu/schedule

FILMSTD 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specific enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

FILMSTD 669 Screening Sexuality:
3 cr. Undergraduate/Graduate.
Relationship between discourses of sexuality and media artifacts/texts. Historical/theoretical approaches to apprehend construction and representation of sexuality/sexual identities in media.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max. Repeat of English 312 w/same topic.
Last Taught: Fall 2012.
Current Offerings: http://uwm.edu/schedule

FILMSTD 690 Seminar in Contemporary Cinema and Media:
3 cr. Undergraduate.
Contemporary theories and criticism of cinema, TV and the Internet since 1960. Approaches considered include semiotics, structuralism, Marxism, feminism, psychoanalysis, cultural studies, queer theory.
Prerequisites: sr st; English 390(P) or English 391(P).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

FILMSTD 699 Independent Work
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Film Studies faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Film Studies dir or asst dir.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

FILMSTD 700 Teaching Film Studies:
3 cr. Graduate.
Theory of and approaches to teaching film studies on the college level.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
FILMSTD 742 Media Culture
3 cr. Graduate.
A graduate level introduction to media culture, with an emphasis on forms and theories of media culture from the mid-19th century to the present.
Prerequisites: grad st.
Course Rules: English 742 & FilmStd 742 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FILMSTD 743 Film Studies:
3 cr. Graduate.
A graduate-level introduction to film studies, including methods of film analysis and approaches to the history of film.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 743 & FilmStd 743 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

FILMSTD 876 Seminar in Media Culture:
3 cr. Graduate.
Seminar focused on a broad issue related to media culture or specific forms of media, including alternative textual production, cinema, and digital culture.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 876 & FilmStd 876 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FILMSTD 877 Seminar in Film Theory:
3 cr. Graduate.
A graduate-level seminar in film theory.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max. English 877 & FilmStd 877 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gilberto Blasini</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zach Finch</td>
<td>Associate Lect.</td>
<td>PhD</td>
<td>University of Wisconsin, Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peter Paik</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jocelyn Szczepaniak-Gillece</td>
<td>Assistant Prof.</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tami Williams</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact Information
Zach Finch, Academic Advisor
CURTIN, 472
zfinch@uwm.edu
http://uwm.edu/film-studies

Business of Media and Film Studies, Undergraduate Certificate (College of Letters and Science, Department of Film Studies)

The Certificate Program in Business of Media and Film Studies (BMFS) prepares students to be successful in their post-college careers by uniting the study of Business with the study of a popular, accessible, and pertinent area within the Humanities, Film Studies. Business students will have more sustained study in humanistic inquiry, both of their own field and of the diverse world that the Humanities investigates. Letters and Science students will have access to professional school curricula to help them be better equipped to enter a workforce that demands flexibility and a diversity of knowledge and experience.

The certificate in BMFS includes coursework engaging the financial and industry practices and structures in film and television. It is an interdisciplinary academic program consisting of an introductory course in Film or Television Studies, introductory courses in Business Administration (accounting, management, and marketing), an intermediate level Film Studies course focused on history and representational analysis, and a set of electives from Business Administration and Film Studies.

Eligibility
The program is open to all students seeking a bachelor’s degree from UWM, to students who previously earned a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Students currently involved in baccalaureate studies at UWM who successfully complete the requirements of the certificate program will be awarded the certificate at the time of graduation. Other students will receive the certificate upon completion of the program requirements.

Requirements
To obtain the certificate, the student must complete, with a minimum grade point average of 2.50, a minimum of 18 credits in approved BMFS courses as indicated below, 15 of which must be earned in residence at UWM. Of these 15 residence credits, 9 must be taken at the 300 level or above. Nine credits must be taken in the College of Letters and Science, and nine credits must be taken in the Lubar School of Business. Courses for the certificate may not be taken on a credit/no credit basis.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory
Committee (BMFSAC). Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>3-4</td>
</tr>
<tr>
<td>or BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (Business on Film)</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 291</td>
<td>Introduction to Television Studies</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 397</td>
<td>Marketing Internship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 461</td>
<td>Consumer Behavior</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 467</td>
<td>Marketing Seminar:</td>
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<td>Select one of the following:</td>
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<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies: (Cinema and Digital Culture)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 380</td>
<td>Media and Society:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 391</td>
<td>Television Criticism and Theory</td>
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</tr>
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<td>ENGLISH/FILMSTD 393</td>
<td>Entertainment Industries:</td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 394</td>
<td>Theories of Mass Culture:</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18-19

Contact Information
Zach Finch, Academic Advisor
CURTIN, 472
zfinch@uwm.edu
http://www.uwm.edu/film-studies

Film Studies, BA

The Department of Film Studies’ BA program focuses on the history, theory and criticism of film and television. Students learn how to critically analyze the impact of film and television on individuals and society; make connections between media, historical themes and cultural change; and compare different formats. Film and media cross time periods and locations, languages and cultures. The courses that a well-rounded Film Studies student will take are equally as diverse. The major blends courses in Film Studies with classes from English, Art History, Comparative Literature, History, Religious Studies, French, Italian, Japanese, and other languages. UWM students have the advantage of being in the heart of the largest city in Wisconsin, home to a lively art house movie scene, a growing independent film industry, and a thriving cinematic culture.

Students who are more interested in film and video production process and who are looking to become a filmmaker or videographer may wish to also explore the majors offered through UWM’s Peck School of the Arts.

Additional courses that count toward the major are offered by the following departments in the College of Letters and Science:
- Art History
- English
- Foreign Languages and Linguistics
- French, Italian, and Comparative Literature
- Journalism, Advertising, and Media Studies

Lower division film production courses are offered by the Peck School of the Arts’ Film Department, and may count towards a student’s elective course requirements.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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Oral and Written Communication

<table>
<thead>
<tr>
<th>Part A</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
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</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Part A</th>
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</thead>
<tbody>
<tr>
<td>MATH 103</td>
</tr>
<tr>
<td>MATH 105</td>
</tr>
<tr>
<td>MATH 108</td>
</tr>
</tbody>
</table>

Or equivalent course

<table>
<thead>
<tr>
<th>Part B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
</tr>
</tbody>
</table>

Course designated as OWC-B; may be completed through a major-specific course requirement

Or equivalent course
College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

   - MATH 102 Mathematical Literacy for College Students II 3
   - MATH 103 Contemporary Applications of Mathematics 3
   - MATH 105 Introduction to College Algebra 3
   - MATH 108 Algebraic Literacy II 3
   - MATH 175 Mathematical Explorations for Elementary Teachers I 3

   Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

   - Complete one of the following:
     - 3 or more credits in any 200-level or above Math course
     - AFRICOL 220 Introduction to Statistics in Africology

III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural
Diversity (CD+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Arts</strong></td>
<td><strong>Arts</strong></td>
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<tr>
<td>Select 3 credits</td>
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</tr>
<tr>
<td><strong>Humanities</strong></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td>Complete 12 credits</td>
<td>of L&amp;S courses with Humanities Breadth</td>
<td>12</td>
</tr>
<tr>
<td>designation; no more</td>
<td>more than 6 credits from a single subject area</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*</td>
<td></td>
</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Complete 12 credits</td>
<td>of L&amp;S Courses with Social Science Breadth</td>
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</tr>
<tr>
<td>designation; no more</td>
<td>more than 6 credits from a single curricular</td>
<td></td>
</tr>
<tr>
<td></td>
<td>area.</td>
<td></td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Complete 12 credits</td>
<td>of L&amp;S Courses with Natural Sciences Breadth</td>
<td>12</td>
</tr>
<tr>
<td>designation, including</td>
<td>course; no more than 6 credits from a single</td>
<td></td>
</tr>
<tr>
<td>at least one laboratory</td>
<td>curricular area.</td>
<td></td>
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<td></td>
<td>*</td>
<td></td>
</tr>
<tr>
<td><strong>Cultural Diversity</strong></td>
<td><strong>Cultural Diversity</strong></td>
<td></td>
</tr>
<tr>
<td>Complete 3 credits</td>
<td>in a course with Cultural Diversity (CD)</td>
<td>3</td>
</tr>
<tr>
<td>designation. **</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Film Studies Major Requirements**

A total of 36 credits is required for the major, at least 18 in upper-level courses (numbered 300 or above), with at least 15 of them taken in residence at UWM. Students must attain a 2.500 GPA on all UWM credits attempted for the major. In addition, the College requires that students attain a 2.500 GPA on all major credits attempted, including any transfer work. Students must complete the requirements specified below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core</strong></td>
<td><strong>Core</strong></td>
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<tr>
<td>ARTHIST/FILMSTD 205</td>
<td>History of Film I: Development of an Art</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 390</td>
<td>Classical Film Criticism and Theory</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 690</td>
<td>Seminar in Contemporary Cinema and Media:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(satisfies L&amp;S research requirement;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>offered spring semester only)</td>
<td></td>
</tr>
<tr>
<td><strong>Intermediate-Level Requirement</strong></td>
<td></td>
<td></td>
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<tr>
<td>Select two of the following:</td>
<td></td>
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<tr>
<td>ARTHIST/ENGLISH/</td>
<td>Entertainment Arts: Film, Television,</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 111</td>
<td>and the Internet</td>
<td></td>
</tr>
<tr>
<td>ARTHIST/FILMSTD 206</td>
<td>History of Film II: Development of an Art</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film:</td>
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</tr>
<tr>
<td>ENGLISH/FILMSTD 286</td>
<td>Writing about Film and Television</td>
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</tr>
<tr>
<td>ENGLISH/FILMSTD 291</td>
<td>Introduction to Television Studies (if</td>
<td></td>
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<tr>
<td></td>
<td>not selected above)</td>
<td></td>
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<tr>
<td>ENGLISH/FILMSTD 293</td>
<td>Literature and Media:</td>
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<td>ENGLISH/FILMSTD 294</td>
<td>Game Culture</td>
<td></td>
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<tr>
<td>ENGLISH/FILMSTD 295</td>
<td>Women and Film</td>
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<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts</td>
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<tr>
<td>FILM 203</td>
<td>Media Workshop:</td>
<td></td>
</tr>
<tr>
<td>FILM 220</td>
<td>16mm Filmmaking II</td>
<td></td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies:</td>
<td></td>
</tr>
<tr>
<td>FILMSTD 299</td>
<td>Ad Hoc:</td>
<td></td>
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<tr>
<td>ITALIAN 229</td>
<td>Italian Cinema</td>
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<tr>
<td>JAMS 260</td>
<td>Contemporary Non-Fiction Media</td>
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<td><strong>Advanced-Level Electives</strong></td>
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<td>Select 6 credits from</td>
<td>the following (focusing on world/global/</td>
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<td>(300 and above)</td>
<td>international cinema):</td>
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<tr>
<td>ENGLISH/FILMSTD 316</td>
<td>World Cinema:</td>
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<tr>
<td>FILMSTD 412</td>
<td>Global Cinemas - Cinematic Practices in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>the Context of Globalization:</td>
<td></td>
</tr>
<tr>
<td>Or other appropriate</td>
<td>courses approved by the Director</td>
<td>12</td>
</tr>
<tr>
<td>Select 12 additional</td>
<td>credits (see below)</td>
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</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

1 A maximum of 3 credits in Film Department courses (FILM) may count toward the intermediate-level course requirement.

**Advanced-Level Electives**

The following is a partial list. Other variable content courses with appropriate subtitles may be approved on a semester-by-semester basis to count toward the major. See the list published in the Schedule of Classes (http://www4.uwm.edu/schedule) under affiliated Film Studies courses, the Film Studies website, or the program advisor.
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Honors in the Major
Film Studies majors who have maintained at least a 3.500 GPA in courses for the major, a 3.500 GPA on all advanced (300-level and above) courses in the major, and a 3.000 GPA overall on all UWM courses attempted may apply to the Film Studies undergraduate advisor to graduate with "Honors in the Major."

### Honors in the College of Letters and Science

#### Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

#### Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

#### Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

#### Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Contact Information
Current Students contact Associate Lecturer Zachary Finch at zfinch@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/film-studies/our-people/
http://uwm.edu/film-studies

### Film Studies, Minor
Our Film Studies program focuses on the history, theory and criticism of film and television. Students learn how to critically analyze the impact of film and television on individuals and society; make

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST/FILMSTD 308</td>
<td>Film Styles:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (New Chinese Cinemas)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 461</td>
<td>Film-Fiction Interaction:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 316</td>
<td>World Cinema:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 320</td>
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<td>ENGLISH/FILMSTD 380</td>
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<td>ENGLISH/FILMSTD 383</td>
<td>Cinema and Genre:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 391</td>
<td>Television Criticism and Theory</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 394</td>
<td>Theories of Mass Culture:</td>
<td>3</td>
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<tr>
<td>FILMSTD/JEWISH 350</td>
<td>Global Jewish Film and Television:</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 412</td>
<td>Global Cinemas - Cinematic Practices in the Context of Globalization:</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 489</td>
<td>Internship in Film Studies, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td>FILMSTD 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality:</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 699</td>
<td>Independent Work</td>
<td>1-3</td>
</tr>
<tr>
<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World:</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 629</td>
<td>Major Film Directors:</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 562</td>
<td>Media Studies and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 620</td>
<td>Seminar in Global Media</td>
<td>3</td>
</tr>
</tbody>
</table>

1 A maximum of 3 credits in JAMS courses may count toward the advanced-level course requirement.
connections between media, historical themes and cultural change; and compare different formats.

Film and media cross time periods and locations, languages and cultures. The courses that a well-rounded Film Studies student will take are equally diverse. The major blends courses in Film Studies with classes from English, Art History, Comparative Literature, History, Religious Studies, French, Italian, Japanese, and other languages.

UWM students have the advantage of being in the heart of the largest city in Wisconsin, home to a lively art house movie scene, a growing independent film industry, and a thriving cinematic culture.

Students who are more interested in film and video production process and who are looking to become a filmmaker or videographer may wish to also explore the majors and minors offered through UWM’s Peck School of the Arts.

**Requirements**

To complete the minor, students are required to take 18 credits of Film Studies Program approved courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST/FILMSTD 205</td>
<td>History of Film I: Development of an Art</td>
<td></td>
</tr>
<tr>
<td>ARTHIST/FILMSTD 206</td>
<td>History of Film II: Development of an Art</td>
<td></td>
</tr>
</tbody>
</table>

| Electives             |                                                              |         |
| Select 3 additional credits from intermediate electives (see below) | 3       |
| Select 9 credits from advanced electives (see below)                  | 9       |
| Total Credits                      |                                                              | 18      |

Students must attain a 2.500 GPA in UWM credits attempted for the minor. In addition, the College requires that students attain a 2.500 GPA in all minor credits attempted, including any transfer work.

**Intermediate-Level Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST/ENGLISH/FILMSTD 111</td>
<td>Entertainment Arts: Film, Television, and the Internet</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST/FILMSTD 206</td>
<td>History of Film II: Development of an Art</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 286</td>
<td>Writing about Film and Television</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 291</td>
<td>Introduction to Television Studies (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 293</td>
<td>Literature and Media:</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 294</td>
<td>Game Culture</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 295</td>
<td>Women and Film</td>
<td>3</td>
</tr>
<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts</td>
<td>3</td>
</tr>
<tr>
<td>FILM 203</td>
<td>Media Workshop:</td>
<td>3</td>
</tr>
<tr>
<td>FILM 220</td>
<td>16mm Filmmaking II</td>
<td>3</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Advanced-Level Electives**

<table>
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**Contact Information**

Current Students contact Zach Finch, Advisor, zfinch@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/film-studies/our-people/
http://uwm.edu/film-studies
FOOD & BEVERAGE STUDIES

Food Studies is for any student working in or studying a topic that has a relationship to food - agriculture, food distribution, social work, maternal and infant health, economic and political stability, peacebuilding, transportation, conservation, global health, and many more. UWM's program does not focus on food preparation or culinary arts but provides value for individuals in food service who want to understand the impact of food and nutrition in our society and in places around the globe.

Students take courses in nutrition and health sciences to explore the effects of food on our physical and mental well-being as well as liberal arts coursework in history, anthropology, and foreign cultures to develop a deeper understanding of the culture, identity, costs, distribution, infrastructure, scarcity, and politics surrounding food.

Programs
- Food Studies, Undergraduate Certificate (College of Letters and Science, Department of Food & Beverage Studies) (p. 1297)

Food & Beverage Studies Courses

**FOODBEV 101 Introduction to Food Studies**
3 cr. Undergraduate.
Ways in which food affects health; health 'crazes;' systems of food distribution and economics; ethical and environmental issues; food as a symbol for social distinction.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

**FOODBEV 102 Taste: The Culture and Science of Fermentation**
3 cr. Undergraduate.
Fermentation as a cultural and scientific phenomenon; anthropological, historical, biological, chemical, and cultural aspects of fermentation process; roles of fermented foods and beverages in society.
Prerequisites: none.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

**FOODBEV 199 Independent Study**
1-3 cr. Undergraduate.
Independent study under supervision of faculty or academic staff member. For further information, consult prog coordinator.
Prerequisites: 2.5 GPA; writ cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

**FOODBEV 289 Internship in Food Studies, Lower Division**
1-3 cr. Undergraduate.
Application of basic principles of food studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising instr.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

**FOODBEV 297 Study Abroad**
1-6 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

**FOODBEV 299 Ad Hoc**
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/ chg in topic.
Current Offerings: http://uwm.edu/schedule

**FOODBEV 489 Internship in Food Studies, Upper Division**
1-3 cr. Undergraduate.
Application of basic principles of food studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising instr.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

**FOODBEV 497 Study Abroad**
1-6 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

**FOODBEV 499 Ad Hoc**
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/ chg in topic.
Current Offerings: http://uwm.edu/schedule

**FOODBEV 499 Advanced Independent Study**
1-3 cr. Undergraduate.
Advanced-level independent study work under the supervision of a faculty or academic staff member.
Prerequisites: jr st; 2.50 gpa; writ cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable w/chg in topic to 3 cr max.
Last Taught: Spring 2018, Fall 2015.
Current Offerings: http://uwm.edu/schedule
Food Studies, Undergraduate Certificate (College of Letters and Science, Department of Food & Beverage Studies)

Lori Klos, Assistant Professor, Kinesiology, Co-Coordinator, END 455, (414) 229-3162, lkos@uwm.edu
Larry Kuiper, Associate Professor, French, Co-Coordinator, CRT 782, (414) 229-5966, kuiper@uwm.edu

The College of Letters and Science cooperates with the College of Health Sciences to offer an undergraduate certificate in Food Studies. The certificate is designed to help students become proficient at:

1. Investigating and analyzing food systems and practices in a variety of cultural, social, and geographical settings;
2. Presenting their critical reflections on the forces that surround these systems and practices in both written and oral form;
3. Using information (statistical, textual, first-hand accounts, etc.) as a basis for formulating plans for personally and socially responsible action pertinent to local and global food and health; and
4. Becoming active in the community by participating in activities that develop responsible and sustainable practices, promote cross-cultural understanding, and help people in disparate professions or academic fields understand the relationships the study of food has with their own specializations.

Requirements

To earn the certificate, students must complete 18 credits in approved Food Studies courses, with a minimum grade point average of 2.500, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOODBEV 101</td>
<td>Introduction to Food Studies (with a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select at least 12 credits selected from the approved courses list, including one course each in the humanities and the social sciences</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select at least one course in natural or health sciences, nursing, or engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FOODBEV 699 Advanced Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

Of the 18 required credits, at least 9 credits must be taken at the advanced level (courses numbered 300 and above) and at least 9 credits must be taken in residence at UWM. No more than 9 credits in one curricular code may be counted towards the certificate. Students are limited to 3 credits in independent studies and 3 credits in internships.

Approved Electives

The following courses are approved to count toward the Food Studies Certificate. Additional courses may be found each semester in the Schedule of Classes. In addition, students are encouraged to consult the Program Coordinators and to petition for the inclusion of relevant courses as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 156</td>
<td>Food and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>BMS 232</td>
<td>Introduction to Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>BMS 290</td>
<td>Topics in Health Sciences: 1</td>
<td>1-3</td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>BMS 590</td>
<td>Topics in Clinical Laboratory Sciences:</td>
<td>1-5</td>
</tr>
<tr>
<td>CES 571</td>
<td>Practical Approaches to a Sustainable Future</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 160</td>
<td>A Taste of China: Learning Chinese Culture and Society through Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (Discovering Food)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (Cuisine, Community, and Literature)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 461</td>
<td>Film-Fiction Interaction: (Global Food Narratives)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 515</td>
<td>Literature and the Other Arts: (Eating English Literature)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 625</td>
<td>Seminar in Literary History: (Eating English Literature)</td>
<td>3</td>
</tr>
</tbody>
</table>

Eligibility

The Certificate in Food Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular University admission requirements. The Certificate is awarded jointly by the College of Health Sciences and the College of Letters and Science.

Students concurrently enrolled in a degree program who successfully complete the certificate program requirements will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon completion of the program requirements. Graduate students are eligible to pursue the Food Studies certificate concurrently with their graduate studies, and they will be awarded the certificate upon completion of the program requirements.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOODBEV 102</td>
<td>Taste: The Culture and Science of Fermentation</td>
<td>3</td>
</tr>
<tr>
<td>FOODBEV 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>FOODBEV 289</td>
<td>Internship in Food Studies, Lower Division</td>
<td>1-3</td>
</tr>
<tr>
<td>FOODBEV 297</td>
<td>Study Abroad:</td>
<td>1-6</td>
</tr>
<tr>
<td>FOODBEV 299</td>
<td>Ad Hoc:</td>
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</tr>
<tr>
<td>FOODBEV 489</td>
<td>Internship in Food Studies, Upper Division</td>
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<td>FOODBEV 699</td>
<td>Advanced Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>FRENCH 145</td>
<td>Views of France: (Learning French Culture Through Cuisine)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures: (Cuisines et Cultures Françaises)</td>
<td>1-3</td>
</tr>
<tr>
<td>GERMAN 145</td>
<td>Views of Germany: (Beer, Bread, and Brats)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 600</td>
<td>Seminar in History</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 256</td>
<td>Introduction to Italian Food Studies: A Cultural History</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 456</td>
<td>Topics in Italian Food Studies:</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 220</td>
<td>Introduction to Japanese Food Studies</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 299</td>
<td>Ad Hoc: (Exploring Israel's Culture, Food, History, and Language)</td>
<td>1-6</td>
</tr>
<tr>
<td>KIN 290</td>
<td>Special Topics in Human Movement Sciences: (Nutrition for the Health Professions)</td>
<td>1-3</td>
</tr>
<tr>
<td>NUTR 241</td>
<td>Why We Eat What We Eat: An Ecological Approach</td>
<td>3</td>
</tr>
<tr>
<td>RELIGST 350</td>
<td>Advanced Topics in Religious Studies: (Religion in Daily Life: Food, Drink, and Clothing)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 225</td>
<td>Understanding the Hispanic World: (&quot;Food and Culture: Beyond Tacos and Paella&quot; subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 360</td>
<td>Perspectives on the Urban Scene: (You Are Where You Eat: Urban Food Geographies)</td>
<td>3</td>
</tr>
</tbody>
</table>

1. The following subtitled topics courses may be used towards the Undergraduate Certificate in Food Studies: Introduction to Food Principles and Preparation or Life Cycle Nutrition.

2. The following subtitled topics courses may be used towards the Undergraduate Certificate in Food Studies: Food, Culture, and Power or Food and the City.

**Contact Information**

Current Students contact Associate Professor Lawrence Kuiper, kuiper@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Food+Studies
FOREIGN LANGUAGES AND LITERATURE

The Department of Foreign Languages and Literature, formed in 1996, teaches modern and ancient languages, their literature, and the linguistic and philological study of these languages. The broad departmental structure encourages the development of cross-disciplinary academic undertakings.

The University's Foreign Language course requirements may be satisfied through coursework in the following curricular areas:

Arabic

Arabic courses may be of particular interest to students in the Certificate in Middle Eastern and North African Studies, the International Studies major, the Linguistics major, and the Global Studies degree program. A minor in Arabic is also offered.

Chinese

Courses in Chinese also may be of interest to students pursuing the Asian Studies Certificate, the International Studies major, and the Bachelor of Arts in Global Studies. A Chinese major can be completed through the Committee Interdisciplinary major; a Chinese minor is also available.

German

Students who have had no previous training in German should enroll in German 101. Those who have studied German in high school should take the placement exam in German, administered by the Testing Center, before enrolling; the exam is required for those who have had two or more years of high school German. After consultation with the department, a student may enroll in a course one level higher or lower than the one recommended by the placement examination. Both a German major and a minor are available.

Japanese

Courses in Japanese may be of interest to students pursuing the Asian Studies certificate, the International Studies major, and the Bachelor of Arts in Global Studies. A Japanese major can be completed through the Committee Interdisciplinary major; a minor is also available.

Korean

Courses in Korean may be of interest to students pursuing the Asian Studies Certificate and/or the International Studies major. The Department offers a four-semester sequence in Korean.

Slavic Languages

The Slavic Languages program offers coursework in Polish and Russian. Through the study of these languages, students gain exposure to the literature and culture of the eastern European areas in which these languages are spoken. The program offers a major in Russian. In addition, the Slavic languages are an integral part of the Russian and East European Studies Certificate Program.

Classics

The Classics program offers instruction in the ancient Greek and classical Latin languages and literatures and in the civilizations of Greece and Rome. Courses offered in the area of classical civilization do not require a knowledge of Greek or Latin.

Students planning to pursue graduate study in classics and related disciplines, or teaching certification in Latin, should consult with the Classics Program coordinator early in their undergraduate career. Students interested in a Classics major may also want to consider the Ancient Mediterranean Studies Certificate.

Hebrew/Jewish Studies

The Department of Foreign Languages and Literature, in cooperation with the Center for Jewish Studies, offers a major in Jewish Studies. Students may choose between two tracks: Hebrew Studies, which requires proficiency in the Hebrew language and focuses on the texts and history of early Judaism, and Jewish Cultural Studies, which focuses on modern Jewish culture and history. Hebrew/Jewish Studies students also may be interested in the Comparative Ethnic Studies and the Religious Studies programs as well as the certificate program in Middle Eastern and North African Studies.

Programs

- Arabic, Minor (p. 1327)
- Business German, Minor (p. 1328)
- Chinese, Minor (p. 1328)
- Classics, BA (p. 1329)
- Classics, Minor (p. 1333)
- Committee Interdisciplinary Major, BA: Chinese Language and Culture (p. 1333)
- Committee Interdisciplinary Major, BA: Japanese Language and Culture (p. 1337)
- German Studies, Undergraduate Certificate (p. 1340)
- German, BA (p. 1341)
- German, Minor (p. 1344)
- Japanese, Minor (p. 1345)
- Jewish Studies, BA (p. 1345)
- Jewish Studies, Minor (p. 1349)
- Russian and East European Studies, Undergraduate Certificate (p. 1351)
- Russian, BA (p. 1353)
- Russian, Minor (p. 1356)
- Scandinavian Studies, Undergraduate Certificate (p. 1357)

Foreign Languages and Literature Courses

FLL 101 How to Learn a Language
1 cr. Undergraduate.
This course provides language students with learning tools that are helpful for articulatory phonetics, morphology, grammatical inflections, word derivations, and explanations of unfamiliar grammatical constructions.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule
FLL 102 Uncommonly Taught Language: Intensive First Semester: 
5-7 cr. Undergraduate. 
Intensive training in an uncommonly taught language, for students with no previous knowledge of the language. 
**Prerequisites:** none. 
**Course Rules:** May be retaken w/chg of language. FLL 102 & Linguis 102 are jointly offered; w/same topic, they count as repeats of one another. 
**Last Taught:** Fall 2009, Fall 2008, Summer 2004, Fall 2002. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 103 First Semester of an Uncommonly-Taught Language: 
1-4 cr. Undergraduate. 
Elementary training in an uncommonly-taught language (i.e. one not otherwise offered in any UWM program). Number of credits earned by the student is determined by the credit value assigned to section number. 
**Prerequisites:** none. 
**Course Rules:** For students with no previous knowledge of the language. May be retaken w/chg in language. FLL 103 & Linguis 103 are jointly offered; with same topic, they count as repeats of one another. 
**Last Taught:** Fall 2007, Fall 2006, Spring 2006, Spring 2005. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 104 Second Semester of an Uncommonly Taught Language: 
3-4 cr. Undergraduate. 
Continuation of FLL/Linguis 103 (Linguis 131). Number of credits earned by student is determined by the credit value assigned to section number. 
**Prerequisites:** FLL/Linguis 103(Linguis 131)(P) in same language. 
**Course Rules:** May be retaken w/chg in language. FLL 104 & Linguis 104 are jointly offered; w/same topic, they count as repeats of one another. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 105 Intensive Elementary Language I: 
4 cr. Undergraduate. 
Methodical study of the elements of a designated language; phonology, morphology, syntax, vocabulary. First five-week module in semester-long intensive program. 
**Prerequisites:** conc reg FLL 216. 
**Course Rules:** May be retaken w/chg in topic. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 106 Intensive Elementary Language II: 
4 cr. Undergraduate. 
Continuation of FLL 105. A five-week intensive course offered as the second of three modules in a semester-long intensive program. 
**Prerequisites:** FLL 105(C) or equiv; conc reg in FLL 216. 
**Course Rules:** May be retaken w/chg in topic. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 109 First-Semester Lao Literacy 
3 cr. Undergraduate. 
Introduction to literacy skills in Lao. Intended for speakers of Lao. 
**Prerequisites:** none. 
**Last Taught:** Fall 2005, Fall 2004, Fall 2003. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 110 Second-Semester Lao Literacy 
3 cr. Undergraduate. 
Continuation of FLL 109 (Linguis 163). 
**Prerequisites:** FLL 109 (Linguis 163)(P). 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 192 First Year Seminar: 
3 cr. Undergraduate. 
Specific topics announced in the Schedule of Classes each time course is offered. 
**Prerequisites:** none. 
**Course Rules:** Open only to freshman. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). 
**General Education Requirements:** HU 
**Last Taught:** Fall 2013, Fall 2012, Fall 2011, Fall 2010. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 199 Independent Study 
1-3 cr. Undergraduate. 
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. 
**Prerequisites:** 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS. 
**Course Rules:** May be retaken to 6 cr max. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 202 Uncommonly Taught Language: Intensive Second Semester: 
5-7 cr. Undergraduate. 
Continuation of FLL/Linguis 102(Linguis 133). 
**Prerequisites:** FLL/Linguis 102(Linguis 133)(P) in same language. 
**Course Rules:** May be retaken w/chg in language. FLL 202 & Linguis 202 are jointly offered; w/same topic, they count as repeats of one another. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 203 Third Semester of an Uncommonly Taught Language: 
3-4 cr. Undergraduate. 
Continuation of FLL/Linguis 104(Linguis 132). Number of credits earned by student is determined by credit value assigned to section number. 
**Prerequisites:** FLL/Linguis 104(Linguis 132)(P) in the same language. 
**Course Rules:** May be retaken w/chg in language. FLL 203 & Linguis 203 are jointly offered; w/same topic, they count as repeats of one another. 
**Last Taught:** Fall 2008, Fall 2007, Fall 2005, Spring 2005. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 204 Fourth Semester of an Uncommonly Taught Language: 
3-4 cr. Undergraduate. 
Continuation of FLL/Linguis 203(Linguis 231). Number of credits earned by student is determined by credit value assigned to section number. 
**Prerequisites:** FLL/Linguis 203(Linguis 231)(P) in same language. 
**Course Rules:** May be retaken w/chg in language. FLL 204 & Linguis 204 are jointly offered; w/same topic, they count as repeats of one another. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FLL 205 Intensive Intermediate Language I: 
3 cr. Undergraduate. 
Completion of methodical study of elements of the designated language; emphasis on intensive review of/practice with vocabulary, morphology, syntax. Third five-week module in semester-long intensive program. 
**Prerequisites:** FLL 106(C) or equiv; conc reg in FLL 216. 
**Course Rules:** May be retaken w/chg in topic. 
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
FLL 216 Survey of Civilization:
3 cr. Undergraduate.
Survey of the civilization of the designated language from geographical, historical, and cultural perspectives; emphasis on reading in the language simple and intermediate texts that illustrate aspects of the civilization.
Prerequisites: conc reg in FLL 105, 106, & 205.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

FLL 240 Vampires: From Slavic Village to Hollywood
3 cr. Undergraduate.
Historical survey of western vampire lore from discovery in eastern Europe in the 1700's through British literary vampire literature to Hollywood Dracula films.
Prerequisites: none.
Course Rules: Not open to students who have taken FLL 192, Vampires topic.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

FLL 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created especially for offering in a specified enrollment period. Requires only dept and Assoc Dean approval. In exceptional circumstances can be offered in one add'l semester.
Prerequisites: none, except as required for specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

FLL 303 Fifth Semester of an Uncommonly Taught Language:
3-4 cr. Undergraduate.
Continuation of FLL/Linguis 204(Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 204(Linguis 232)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 303 & Linguis 303 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FLL 304 Sixth Semester of an Uncommonly Taught Language:
3 cr. Undergraduate.
Continuation of FLL/Linguis 303(Linguis 331). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 303(Linguis 331)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 304 & Linguis 304 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

FLL 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2013.
Current Offerings: http://uwm.edu/schedule

FLL 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced-level independent work under the supervision of a Foreign Languages and Literature faculty or academic staff member.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

Arabic Courses

ARABIC 101 First Semester Arabic
5 cr. Undergraduate.
For students with no previous knowledge of Arabic. Emphasis on one standard dialect. Language laboratory required.
Prerequisites: none.
Course Rules: Open to native speakers of Arabic only w/cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARABIC 102 Second Semester Arabic
5 cr. Undergraduate.
Elements of reading and writing contemporary literary Arabic.
Prerequisites: Arabic 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Course Rules: Open to native speakers of Arabic only w/cons instr.
Current Offerings: http://uwm.edu/schedule

ARABIC 111 Cultures and Civilizations of the Muslim Middle East
3 cr. Undergraduate.
Muslim Middle East through historical and ethnographic materials; reading of Quran and some modern literature.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ARABIC 164 Arabs and Islam in America
3 cr. Undergraduate.
History of Arab immigration, experience of Arabs, and nature of Islam and Islamic communities in America.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2016, Fall 2014, Spring 2012.
Current Offerings: http://uwm.edu/schedule

ARABIC 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ARABIC 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule
ARABIC 201 Third Semester Arabic
5 cr. Undergraduate.
Prerequisites: Arabic 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro crs).
Course Rules: Open to native speakers of Arabic only w/cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARABIC 202 Fourth Semester Arabic
5 cr. Undergraduate.
Continuation of 201. Noun forms. Use of cases. Particles and prepositions. Introduction to Arabic verse.
Prerequisites: Arabic 201(P). Generates L&S credit for demonstrated equivalent preparation (12 retro crs).
Course Rules: Open to native speakers of Arabic only w/cons instr.
Current Offerings: http://uwm.edu/schedule

ARABIC 289 Internship in Arabic, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Arabic in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Arabic; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ARABIC 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ARABIC 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2010, Spring 2002.
Current Offerings: http://uwm.edu/schedule

ARABIC 301 Fifth Semester Arabic
3 cr. Undergraduate.
Continuation of Arabic 202. Root and pattern systems; complex sentence structure; continued development of conversation and writing skills; strategies in reading culturally-oriented texts.
Prerequisites: Arabic 202(P).
Course Rules: Open to native speakers of Arabic only w/cons instr. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARABIC 302 Sixth Semester Arabic
3 cr. Undergraduate.
Continuation of Arabic 301. More complex grammatical forms; vocabulary building principles; continued development of skills in conversation, reading, writing, culturally-oriented readings, and films.
Prerequisites: Arabic 301(P). Generates L&S credit for demonstrated equivalent preparation (16 retro crs).
Course Rules: Open to native speakers of Arabic only w/cons instr.
Current Offerings: http://uwm.edu/schedule

ARABIC 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/ change in topic.
Last Taught: Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ARABIC 404 Introduction to Translation: Arabic to English
3 cr. Undergraduate.
Translating a variety of texts from Arabic to English, including media articles, political texts, and literary and consumer-oriented texts. Identifying and developing translation strategies.
Prerequisites: jr st; 300-level or above course in Arabic; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ARABIC 489 Internship in Arabic, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Arabic in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Arabic; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ARABIC 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ARABIC 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
ARABIC 514 Advanced Translation: Arabic to English
3 cr. Undergraduate.
Translating texts from Arabic to English, including media articles, political
texts, literary and consumer-oriented texts. Identifying and developing
translation strategies; proofreading and editing own work.
Prerequisites: Arabic 404(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

ARABIC 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/ change in topic.
Current Offerings: http://uwm.edu/schedule

ARABIC 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a faculty member.
For more information, consult dept chair.
Prerequisites: jr st, 2.5 GPA; cons instr; dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

CHINESE 101 First Semester Chinese
5 cr. Undergraduate.
Beginning Chinese for students with no previous knowledge of the
language.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHINESE 102 Second Semester Chinese
5 cr. Undergraduate.
Continuation of Chinese 101(Linguis 121).
Prerequisites: Chinese 101(Linguis 121)(NP). Generates L&S credit for
demonstrated equivalent preparation (4 retro cr).
Current Offerings: http://uwm.edu/schedule

CHINESE 150 Contemporary Chinese Society and Culture
3 cr. Undergraduate.
Economics, politics, society, people, culture, and the environment in
contemporary Chinese life. Representation, interpretations, and practices
of Chinese cultures, traditions, and customs.
Prerequisites: none.
Course Rules: In English.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

CHINESE 160 A Taste of China: Learning Chinese Culture and Society
through Cuisine
3 cr. Undergraduate.
Cultural, historical, geographical, and sociological influences on Chinese
cuisine.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

CHINESE 192 First-Year Seminar:
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes
each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one
L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

CHINESE 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/ change in topic.
Current Offerings: http://uwm.edu/schedule

CHINESE 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff
member. For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

CHINESE 200 Chinese Calligraphy
3 cr. Undergraduate.
History, development, aesthetics, and appreciation of Chinese calligraphy;
in-class, hands-on practice in producing calligraphy; aspects of the
fascinating cultural heritage of China.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2011, Spring 2010.
Current Offerings: http://uwm.edu/schedule

CHINESE 201 Third Semester Chinese
5 cr. Undergraduate.
Continuation of Chinese 201(Linguis 221).
Prerequisites: Chinese 201(Linguis 221)(NP) or equiv.Generates L&S
credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHINESE 202 Fourth Semester Chinese
5 cr. Undergraduate.
Continuation of Chinese 201(Linguis 221).
Prerequisites: Chinese 201(Linguis 221)(NP) or equiv. Generates L&S
credit for demonstrated equivalent preparation (12 retro cr).
Current Offerings: http://uwm.edu/schedule
CHINESE 277 Chinese Discussion Section:
1-2 cr. Undergraduate.
Discussion in Chinese, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc).
Prerequisites: Chinese 202(Linguis 223)(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

CHINESE 289 Internship in Chinese, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Chinese in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising faculty member.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

CHINESE 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: http://uwm.edu/schedule

CHINESE 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Spring 2017, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

CHINESE 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

CHINESE 301 Fifth Semester Chinese
4 cr. Undergraduate.
Continuation of Chinese 202(Linguis 223).
Prerequisites: Chinese 202(Linguis 223)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHINESE 302 Sixth Semester Chinese
4 cr. Undergraduate.
Continuation of Chinese 301(Linguis 321).
Prerequisites: Chinese 301(Linguis 321)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Current Offerings: http://uwm.edu/schedule

CHINESE 303 Seventh Semester Chinese
4 cr. Undergraduate.
Continuation of Chinese 302(Linguis 322).
Prerequisites: Chinese 302(Linguis 322)(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHINESE 304 Eighth Semester Chinese
4 cr. Undergraduate.
Continuation of Chinese 303(Linguis 323).
Prerequisites: Chinese 303(Linguis 323)(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Current Offerings: http://uwm.edu/schedule

CHINESE 305 Ninth Semester Chinese
4 cr. Undergraduate.
Continuation of Chinese 304(Linguis 324).
Prerequisites: Chinese 304(Linguis 324)(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHINESE 306 Tenth Semester Chinese
4 cr. Undergraduate.
Continuation of Chinese 305(Linguis 325).
Prerequisites: Chinese 305(Linguis 325)(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Current Offerings: http://uwm.edu/schedule

CHINESE 310 Chinese Language and Culture
3 cr. Undergraduate.
Chinese language and culture through various forms of media.
Prerequisites: Chinese 202(P).
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

CHINESE 311 Chinese Business Chinese
3 cr. Undergraduate.
Chinese in cultural contexts of actual business situations; commonly-used commercial terms, phrases, sentence patterns, and cultural background.
Prerequisites: Chinese 302(Linguis 322)(P).
Current Offerings: http://uwm.edu/schedule

CHINESE 312 Contemporary Chinese Societies through Film
3 cr. Undergraduate.
Film as a context for examining issues in contemporary societies of China and Taiwan; emphasis on development of language proficiency.
Prerequisites: Chinese 202(P) or equiv.
Current Offerings: http://uwm.edu/schedule

CHINESE 330 Chinese Language and Culture
3 cr. Undergraduate.
Chinese language and contemporary culture through various forms of media.
Prerequisites: Chinese 202(P).
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

CHINESE 343 Chinese Martial Arts Fiction
3 cr. Undergraduate.
Martial arts genre fiction from various periods of Chinese history; analysis of the philosophical and societal factors that shaped the genre.
Prerequisites: jr st; acceptance in Study Abroad Prog.
General Education Requirements: HU, OWCB
Current Offerings: http://uwm.edu/schedule

CHINESE 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

CHINESE 401 Seventh Semester Chinese
3 cr. Undergraduate.
Continuation of Chinese 302(Linguis 322).
Prerequisites: Chinese 302(Linguis 322)(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CHINESE 402 Eighth Semester Chinese
3 cr. Undergraduate.
Continuation of Chinese 401.
Prerequisites: Chinese 401(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Current Offerings: http://uwm.edu/schedule

CHINESE 441 Business Chinese
3 cr. Undergraduate.
Chinese in cultural contexts of actual business situations; commonly-used commercial terms, phrases, sentence patterns, and cultural background.
Prerequisites: Chinese 302(Linguis 322)(P).
Current Offerings: http://uwm.edu/schedule
CHINESE 489 Internship in Chinese, Upper Division
1-6 cr. Undergraduate.
Application of basic principles to Chinese in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

CHINESE 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CHINESE 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CHINESE 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CHINESE 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

CHINESE 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a Chinese studies faculty or academic staff member.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair; & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2016, Fall 2014, Fall 2011, Spring 2010.
Current Offerings: http://uwm.edu/schedule

CHINESE 799 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

Classes, Courses, and Options

Greek Courses

GREEK 103 First Semester Greek
4 cr. Undergraduate.
Systematic introduction to the morphology, syntax, and vocabulary of ancient Greek.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GREEK 104 Second Semester Greek
4 cr. Undergraduate.
Continuation of Greek 103; systematic introduction to the morphology, syntax, and vocabulary of Greek.
Prerequisites: Greek 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Current Offerings: http://uwm.edu/schedule

GREEK 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GREEK 205 Third Semester Greek
4 cr. Undergraduate.
Continuation of Greek 104: systematic introduction to the morphology, syntax, and vocabulary of Greek.
Prerequisites: Greek 104(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro crs).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

GREEK 289 Internship in Greek, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Greek in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Greek; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GREEK 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
GREEK 306 Readings in Ancient Greek Literature:
3 cr. Undergraduate.
Reading of texts of Greek literature, with emphasis on morphology, syntax, and vocabulary.
Prerequisites: Greek 205(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).
Course Rules: Counts as repeat of only 1 cr of Greek 304 regardless of the number of times 306 is taken. May be retaken w/chg in topic; no max cr.
Current Offerings: http://uwm.edu/schedule

GREEK 489 Internship in Greek, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Greek in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Greek; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GREEK 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

GREEK 501 Readings in Classical Greek Prose:
3 cr. Undergraduate/Graduate.
Extensive reading in a major author, or in related authors, of ancient Greek prose; e.g., Herodotus, Thucydides, Plato, the Attic Orators, Aristotle, Lucian.
Prerequisites: jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Fall 2011, Fall 2010, Spring 2010.
Current Offerings: http://uwm.edu/schedule

GREEK 502 Readings in Ancient Greek Poetry:
3 cr. Undergraduate/Graduate.
Extensive reading in a major author, or related authors, of ancient Greek poetry; e.g., Homer, the Greek lyric poets, the Attic tragedians, Aristophanes, Menander, Theocritus.
Prerequisites: jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GREEK 699 Directed Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord.
Prerequisites: jr st; 2.5 GPA; writ cons inst, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Fall 2012, Summer 2011, Spring 2009.
Current Offerings: http://uwm.edu/schedule

Latin Courses

LATIN 103 First Semester Latin
4 cr. Undergraduate.
A systematic introduction to the morphology, syntax, and vocabulary of Latin.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

LATIN 104 Second Semester Latin
4 cr. Undergraduate.
Continuation of Latin 103: systematic introduction to the morphology, syntax, and vocabulary of Latin.
Prerequisites: Latin 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Current Offerings: http://uwm.edu/schedule

LATIN 150 Intensive Latin
4 cr. Undergraduate.
Rapid introduction to Latin for students in fields other than classics who require a knowledge of Latin for continued work in their fields. Readings concentrate on medieval Latin.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

LATIN 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

LATIN 205 Third Semester Latin
4 cr. Undergraduate.
Continuation of Latin 204: systematic introduction to the morphology, syntax, and vocabulary of Latin.
Prerequisites: Latin 204(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro crs).
Course Rules: Counts as repeat of Latin 201.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
LATIN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

LATIN 306 Readings in Latin Literature:
3 cr. Undergraduate.
Reading of texts of Latin literature with emphasis on morphology, syntax, vocabulary; a transition to 500 level courses.
Prerequisites: Latin 205(P) or equiv H.S. prep as determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).
Course Rules: Counts as repeat of 2 cr Latin 203 & 1 cr Latin 310. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

LATIN 489 Internship in Latin, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Latin in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Latin; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

LATIN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LATIN 508 Latin Prose Composition
3 cr. Undergraduate/Graduate.
Survey of Latin syntax and idioms, with appropriate exercises in prose composition. Required of Latin majors.
Prerequisites: Latin 310(P) or equiv prep as judged by instr.
Current Offerings: http://uwm.edu/schedule

LATIN 699 Directed Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2014, Fall 2013, Spring 2011, Spring 2010.
Current Offerings: http://uwm.edu/schedule

German Courses

GERMAN 101 First-Semester German
4 cr. Undergraduate.
Introductory course for students who have had no previous work in German.
Prerequisites: 0-2 yrs of HS German or level 1 score on German placement test.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GERMAN 102 Second-Semester German
4 cr. Undergraduate.
Continuation of German 101.
Prerequisites: grade of C or better in German 101(P) or level 2 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GERMAN 111 German Life and Civilization: Part I
3 cr. Undergraduate.
The historical and cultural heritage of Germany from earliest times to 1806: major figures and developments in German art, literature, music, philosophy, and language. In English.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
GERMAN 112 German Life and Civilization: Part II:
3 cr. Undergraduate.
The historical and cultural heritage of Germany from 1806 to the present: major figures and developments in German art, literature, music, education, and philosophy. In English.
Prerequisites: none.
Course Rules: Not re-takable for credit.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

GERMAN 115 Seminar on Scandinavian Culture:
3 cr. Undergraduate.
In-depth study of a specific topic in Scandinavian culture, e.g., theatre, film, literature, women's issues, etc.
Prerequisites: none.
Course Rules: May be re-taken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GERMAN 145 Views of Germany:
3 cr. Undergraduate.
In-depth study of selected aspects of German civilization as reflected in literature.
Prerequisites: none.
Course Rules: May be re-taken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GERMAN 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

GERMAN 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be re-taken w/change in topic.
Last Taught: Spring 2017, Summer 2015, Fall 2014, Summer 2014.
Current Offerings: http://uwm.edu/schedule

GERMAN 199 Independent Study
1-3 cr. Undergraduate.
Prerequisites: soph st; 2.5 gpa, cons instr & dept chair.
Course Rules: May not be re-taken.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

GERMAN 203 Third-Semester German
3 cr. Undergraduate.
Continuation of German 102.
Prerequisites: grade of C or better in German 102(P) or level 3 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GERMAN 204 German in Your Field and Beyond
3 cr. Undergraduate.
Continuation of German 203. Grammar structures; vocabulary development through reading, writing, and speaking about subjects in students' fields of study; inter- and cross-disciplinary studies.
Prerequisites: grade of C or better in German 203(P) or level 4 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GERMAN 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, Italian 213, Linguist 213, Polish 213, Russian 213 & Spanish 213.
Current Offerings: http://uwm.edu/schedule

GERMAN 215 Reading for Research:
3 cr. Undergraduate.
Basic grammatical principles and linguistic structures, augmented by individually-supervised readings in the student's field of specialization. Designed for students preparing for reading examinations.
Prerequisites: none.
Course Rules: May be re-taken once for cr.
Current Offerings: http://uwm.edu/schedule

GERMAN 289 Internship in German, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of German in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in German; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be re-taken to 6 cr max.
Last Taught: Fall 2001.
Current Offerings: http://uwm.edu/schedule

GERMAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be re-taken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
GERMAN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

GERMAN 331 Intermediate German Grammar and Usage
3 cr. Undergraduate.
Review of major structures in German grammar; application of those structures through writing and speaking. Emphasis on written accuracy and proficiency.
Prerequisites: German 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GERMAN 332 Intermediate Conversation and Composition
3 cr. Undergraduate.
Practice in conversation and composition, with emphasis on issues in post-war and contemporary German culture, written accuracy, and proficiency.
Prerequisites: German 331(P). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GERMAN 333 Analysis of German Texts
3 cr. Undergraduate.
Introduction to a variety of texts in German; overview of basic textual analysis skills.
Prerequisites: German 331(P).
Course Rules: Students are encouraged to take 332 before 333.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GERMAN 334 Introduction to German Literature and Culture
3 cr. Undergraduate.
Survey of German literature and culture from 1750 to the present.
Prerequisites: German 332(P).
Course Rules: Students are encouraged to take 333 before 334.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

GERMAN 341 Undergrad Seminar in German-Amer Studies: Germans in Wisconsin & Milwaukee
3 cr. Undergraduate.
Student projects and presentations on the various aspects of the German heritage in Wisconsin and Milwaukee.
Prerequisites: jr st.
Course Rules: Required of ethnic studies majors with a German-American concentration.
Last Taught: Fall 2016, Fall 2005.
Current Offerings: http://uwm.edu/schedule

GERMAN 360 German for the Global World
3 cr. Undergraduate.
Vocabulary, writing, reading, and oral German skills needed for the global world.
Prerequisites: German 332(426)(P); German 333(R) & 334(R).
Last Taught: Fall 2017, Fall 2015, Fall 2012, Fall 2009.
Current Offerings: http://uwm.edu/schedule

GERMAN 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/change in topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GERMAN 410 German Cultural History
3 cr. Undergraduate/Graduate.
Major aspects of German culture from the Middle Ages to the end of the 18th century.
Prerequisites: jr st; German 332(426)(P); German 333(R) & 334(R).
Current Offerings: http://uwm.edu/schedule

GERMAN 415 Topics in German Civilization:
3 cr. Undergraduate/Graduate.
In-depth study of selected topics of German civilization. Critical analysis and practical application of texts and teaching aids. Recommended for present and future high school teachers.
Prerequisites: jr st; German 332(426)(P); German 333(R) & 334(R).
Course Rules: May be retaken w/change in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GERMAN 425 Introduction to German Translation
3 cr. Undergraduate.
Introduction to skills necessary to professional translation from German to English. Text analysis, summarizing texts and terminology research will also be part of this class.
Prerequisites: jr st; German 332(426)(P), 333(P), & 334(R).
Last Taught: Fall 2017, Fall 2015, Fall 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

GERMAN 450 German Literature: Enlightenment, Storm and Stress, Classicism
3 cr. Undergraduate.
Major literary movements and writers in the late eighteenth century. Emphasis on Lessing, Schiller, and Goethe.
Prerequisites: German 332(426)(P), 333(P), & 334(P).
Current Offerings: http://uwm.edu/schedule

GERMAN 451 Introduction to German Linguistics
3 cr. Undergraduate/Graduate.
The nature of linguistics; aspects of phonology, morphology, syntax, semantics; discourse and text; varieties of German; acquisition of German as a foreign language.
Prerequisites: German 332(426)(P).
Current Offerings: http://uwm.edu/schedule
GERMAN 454 German Literature: Realism, Naturalism, and the Turn of the Century
3 cr. Undergraduate.
Major literary movements, writers, and works of the second half of the nineteenth century.
Prerequisites: German 332(426)(P), 333(P), & 334(P).
Current Offerings: http://uwm.edu/schedule

GERMAN 456 German Literature from the Turn of the Century to World War II
3 cr. Undergraduate.
Major literary movements, writers, and works of the first half of the twentieth century; expressionism, ‘Neue Sachlichkeit,’ and exile literature.
Prerequisites: German 332(426)(P), 333(P), & 334(P).
Last Taught: Spring 2016, Fall 2010, Fall 2006, Fall 2003.
Current Offerings: http://uwm.edu/schedule

GERMAN 460 German Literature from 1965 to the Present:
3 cr. Undergraduate/Graduate.
Literary writers and works of the German-speaking countries from 1965 to the present.
Prerequisites: jr st; German 332(426)(P), 333(P), & 334(P).
Last Taught: Fall 2014, Fall 2012, Fall 2009, Fall 2007.
Current Offerings: http://uwm.edu/schedule

GERMAN 488 Topics in German Philology:
3 cr. Undergraduate/Graduate.
Topics pertaining to advanced German language study or to the development of the German language in its spoken or written form.
Prerequisites: jr st; German 332(426)(P); German 333(R) & 334(R).
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GERMAN 489 Internship in German, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of German in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: German 332(426)(P), 333(P), & 334(P); 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Last Taught: Spring 2016, Summer 2012.
Current Offerings: http://uwm.edu/schedule

GERMAN 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

GERMAN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’t sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

GERMAN 525 Seminar in Advanced German Translation
3 cr. Undergraduate.
Refinement of translation skills; concentration on specific types of texts.
Prerequisites: jr st; German 425(P).
Current Offerings: http://uwm.edu/schedule

GERMAN 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

GERMAN 626 Advanced German Grammar and Usage
3 cr. Undergraduate/Graduate.
Analysis and discussion of a variety of text topics and genres. Practice in speaking and writing German; attention to written accuracy and sophistication of form.
Prerequisites: jr st; German 332(426)(C). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Current Offerings: http://uwm.edu/schedule

GERMAN 643 Seminar on Genre Studies:
3 cr. Undergraduate/Graduate.
Works of representative authors. Any add’l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; German 334 (P), & 6 cr German courses at the 400-level or above.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2016, Fall 2012, Spring 1996.
Current Offerings: http://uwm.edu/schedule

GERMAN 645 Seminar on Representative German Authors:
3 cr. Undergraduate/Graduate.
Works of representative authors. Any add’l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st; German 334 (P), & 6 cr German courses at the 400-level or above.
Course Rules: May be retaken w/chg in topic: undergrad, unlimited; grads, 9 cr max.
Current Offerings: http://uwm.edu/schedule
GERMAN 647 Seminar on Themes and Motifs in German Literature: 3 cr. Undergraduate/Graduate.
Recurring patterns and figures in the major genres.
Prerequisites: jr st; German 334(P), & 6 cr German courses at the 400-level or above.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

GERMAN 649 Seminar on Theoretical Approaches to German Literature: 3 cr. Undergraduate/Graduate.
Particular theoretical ideas and methods applied to selected texts; literary movements in relation to philosophy and aesthetics.
Prerequisites: jr st; German 334 (P), & 6 cr German courses at the 400-level or above.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GERMAN 671 Seminar on Phonetics 3 cr. Undergraduate/Graduate.
Articulatory phonetics and phonemics, emphasis on English-German contrasts and pronunciation difficulties; phonetic transcription; drills in pronunciation.
Prerequisites: jr st; German 331(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GERMAN 672 German for Professional Purposes 3 cr. Undergraduate/Graduate.
Language and structures of Germany's professional world. Historical, political, legal, economic, social and cultural forces shaping Germany today.
Prerequisites: jr st; German 332(426)(P), 333(P)& 334(P).
Current Offerings: http://uwm.edu/schedule

GERMAN 681 Seminar on the History and Structure of German 3 cr. Undergraduate/Graduate.
Historical development of the German language from its beginnings to the present.
Prerequisites: jr st; German 332(P).
Last Taught: Spring 2016, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

GERMAN 697 Study Abroad: 1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

GERMAN 699 Independent Reading 1-3 cr. Undergraduate.
Advanced independent work under the supervision of a German faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult the German program coord.
Prerequisites: jr st, 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

GERMAN 700 Practicum in German Language Teaching Methods 1 cr. Graduate.
Practical application within German of methods and concepts taught in MALLT(MAFLL) 700.
Prerequisites: grad st; MALLT(MAFLL) 700(C) or cons instr.
Course Rules: Retakable to 2 cr max.
Current Offerings: http://uwm.edu/schedule

Hebrew/Jewish Studies Courses

Hebrew Studies Courses
HEBR ST 100 Introduction to Judaism 3 cr. Undergraduate.
Laws, beliefs, rituals, and holidays of the Jewish religion and people; development of Judaism.
Prerequisites: none.
Course Rules: No cr for students w/cr in Hebr St 238 w/same topic.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HEBR ST 101 First Semester Hebrew 4 cr. Undergraduate.
For students with no previous knowledge of Hebrew. Elements of reading and grammar, vocabulary building, and fundamental principles of the language. Reading in simple narrative Hebrew prose. Language laboratory required.
Prerequisites: none.
Course Rules: Not open to native speakers of Hebrew. May not be taken for cr by students who have completed Hebr St 51 or 52.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HEBR ST 102 Second Semester Hebrew 4 cr. Undergraduate.
Continuation of Hebr St 101. Language laboratory required.
Prerequisites: Hebr St 101(P) or 51(P) & 52(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Not open to native speakers of Hebrew. No cr for students who have cr in Hebr St 53 & 54.
Current Offerings: http://uwm.edu/schedule

HEBR ST 192 First-Year Seminar: 3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule
HEBR ST 197 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enable students studying language abroad to receive course credit at appropriate level.  
Prerequisites: acceptance in Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Last Taught: Spring 2016, Fall 2015, Spring 2015.  
Current Offerings: http://uwm.edu/schedule

HEBR ST 199 Independent Study  
1-3 cr. Undergraduate.  
For further information, consult dept chair.  
Prerequisites: none.  
Course Rules: May be retaken to 6 cr max.  
Last Taught: Fall 2011, Fall 2006, Spring 2003, Fall 2002.  
Current Offerings: http://uwm.edu/schedule

HEBR ST 201 Third-Semester Hebrew  
4 cr. Undergraduate.  
Advanced grammar and idiom. Easy selections from the Bible and later Hebrew literature.  
Prerequisites: Hebr St 102(P) or 54(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).  
Course Rules: Not open to native speakers of Hebrew.  
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.  
Current Offerings: http://uwm.edu/schedule

HEBR ST 202 Fourth-Semester Hebrew  
4 cr. Undergraduate.  
Continuation of Hebr St 201.  
Prerequisites: Hebr St 201(P). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).  
Course Rules: Not open to native speakers of Hebrew.  
Current Offerings: http://uwm.edu/schedule

HEBR ST 216 Conversation: Elementary Level  
2 cr. Undergraduate.  
Prerequisites: Hebr St 215(P).  
Current Offerings: http://uwm.edu/schedule

HEBR ST 230 Bible Stories  
3 cr. Undergraduate.  
Introduction to the central stories of the Hebrew Bible with particular attention to their literary, aesthetic, social and moral meanings  
Prerequisites: none.  
General Education Requirements: HU  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

HEBR ST 231 Introduction to the Old Testament/Hebrew Bible  
3 cr. Undergraduate.  
The books of the Jewish Scriptures/Christian Old Testament; brief survey of history of ancient Israel. Emphasis on reading biblical texts as ancient religious literature.  
Prerequisites: none.  
General Education Requirements: HU  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

HEBR ST 235 The Dead Sea Scrolls and the Bible  
3 cr. Undergraduate.  
Literature and theology of the 'Dead Sea Scrolls,' emphasizing their relationship to the Bible. Their importance for studying the history of early Judaism and Christianity.  
Prerequisites: none.  
General Education Requirements: HU  
Current Offerings: http://uwm.edu/schedule

HEBR ST 238 Topics in Hebrew/Jewish Literature, Art, and Culture:  
3 cr. Undergraduate.  
Introduction to various aspects of Hebrew/Jewish literature, art, and culture; possible topics include biblical literature, Israeli film, children's literature, drama, Israeli culture, Holocaust literature.  
Prerequisites: none.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
General Education Requirements: HU  
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.  
Current Offerings: http://uwm.edu/schedule

HEBR ST 254 Studies in Hebrew Culture:  
3 cr. Undergraduate.  
Various thematic approaches to Hebrew culture.  
Prerequisites: none.  
Course Rules: May be retaken w/chg in topic to 6 cr max.  
General Education Requirements: HU  
Last Taught: Fall 2013, Fall 2010, Fall 2009, Fall 2008.  
Current Offerings: http://uwm.edu/schedule

HEBR ST 261 Representing the Holocaust in Words and Images  
3 cr. Undergraduate.  
Holocaust literature and film; issues of representation and memory. Texts include memoirs, graphic novels, fiction, and documentaries.  
Prerequisites: none.  
Course Rules: No cr for students w/cr in Hebr St 238 with same topic. Hebr St 261 & Jewish 261 are jointly offered; they count as repeats of one another.  
General Education Requirements: HU  
Current Offerings: http://uwm.edu/schedule

HEBR ST 289 Internship in Hebrew Studies, Lower Division  
1-6 cr. Undergraduate.  
Application of basic principles of Hebrew studies in a business, organizational, educational, political, or other appropriate setting.  
Prerequisites: intro course in Hebr St; 2.25 gpa; cons supervising faculty member.  
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.  
Current Offerings: http://uwm.edu/schedule

HEBR ST 297 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.  
Prerequisites: acceptance for Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Last Taught: Spring 2015, Fall 2012, Spring 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule
HEBR ST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

HEBR ST 301 Modern Hebrew Literature I in Hebrew
3 cr. Undergraduate.
Selections from modern Hebrew prose and poetry up to 1948. Course conducted substantially in Hebrew.
Prerequisites: jr st. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Course Rules: Not open for cr to students w/cr in Hebr St 303.
General Education Requirements: HU
Last Taught: Fall 2016, Fall 2010, Fall 2009, Fall 2000.
Current Offerings: http://uwm.edu/schedule

HEBR ST 302 Modern Hebrew Literature II in Hebrew
3 cr. Undergraduate.
Selections from modern Hebrew prose and poetry from 1948 to the present. Course conducted substantially in Hebrew.
Prerequisites: jr st. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Course Rules: Not open for cr to students w/cr in Hebr St 304.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HEBR ST 331 Topics in Biblical Literature:
3 cr. Undergraduate.
Analysis of genres or issues in biblical literature; topics may include wisdom literature, prophetic writings, Bible as literature, God in the Old Testament.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

HEBR ST 332 Women in the Bible
3 cr. Undergraduate.
Analyzes stories about women in the Old Testament from a literary, cultural and historical perspective; includes how these texts have influenced modern views of women.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HEBR ST 368 Jewish and Christian Responses to the Holocaust
3 cr. Undergraduate.
Jewish and Christian answers to theological questions raised by the Holocaust, such as 'Where was God?' Focus on interfaith dialogue and understanding.
Prerequisites: jr st.
Course Rules: No cr for students w/cr in Hebr St 254 with same topic. Hebr St 368(268) & Jewish 368(268) are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HEBR ST 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2012.
Current Offerings: http://uwm.edu/schedule

HEBR ST 470 Readings in Rabbinic Literature:
3 cr. Undergraduate.
Analysis of a selected genre of rabbinic literature in its original language(s), including readings from the Targum, Midrash, or Mishna.
Prerequisites: Hebr St 206(P) or 202(P); Hebr St 411(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2005.
Current Offerings: http://uwm.edu/schedule

HEBR ST 489 Internship in Hebrew Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Hebrew studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Hebr St; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

HEBR ST 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2012, Spring 1997, Fall 1996.
Current Offerings: http://uwm.edu/schedule

HEBR ST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2005.
Current Offerings: http://uwm.edu/schedule
HEBR ST 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

HEBR ST 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

HEBR ST 699 Independent Study
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Hebr St faculty
or instructional academic staff member. Students must submit a study
proposal. For more information, consult Hebr St prog coord.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for
SAS.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017, Fall 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

Jewish Studies Courses
JEWISH 101 Jewish Culture in America: History, Literature, Film
3 cr. Undergraduate.
Cross-disciplinary study of modern Jewish culture in America, with
particular attention given to Jewish-American literature, film, and history
of the nineteenth and twentieth centuries.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

JEWISH 192 First-Year Seminar:
3 cr. Undergraduate.
Specific humanities topics are announced in the Timetable each time
the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one
L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2010.
Current Offerings: http://uwm.edu/schedule

JEWISH 193 First-Year Seminar:
3 cr. Undergraduate.
Specific social science topics are announced in the Timetable each time
the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one
L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

JEWISH 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff
member. For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

JEWISH 247 Topics in Jewish Literature, Art, and Culture:
3 cr. Undergraduate.
Introduction to various aspects of modern Jewish literature, art, and
culture; possible topics include Jewish music, Jewish American literature,
Holocaust literature, and Jewish art.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2014, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

JEWISH 261 Representing the Holocaust in Words and Images
3 cr. Undergraduate.
Holocaust literature and film; issues of representation and memory. Texts
include memoirs, graphic novels, fiction, and documentaries.
Prerequisites: none.
Course Rules: No cr for students w/cr in Hebr St 238 with same topic.
Hebr St 261 & Jewish 261 are jointly offered; they count as repeats of one
other.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

JEWISH 289 Internship in Jewish Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Jewish studies in business,
organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Jewish; 2.50 gpa; cons supervising faculty
member.
Course Rules: One cr earned for academic work based on 40 hrs in
internship. May be retaken to 6 cr max.
Last Taught: Fall 2011, Fall 2008.
Current Offerings: http://uwm.edu/schedule

JEWISH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2015.
Current Offerings: http://uwm.edu/schedule

JEWISH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
JEWISH 321 The Holocaust and the Politics of Memory
3 cr. Undergraduate.
Exploration of the political, sociological, and cultural motivations behind public debates about the Holocaust in post-WWII Germany, Israel, and France.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

JEWISH 328 The Arab-Israeli Conflict
3 cr. Undergraduate/Graduate.
Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.
Prerequisites: jr st.
Course Rules: Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JEWISH 350 Global Jewish Film and Television:
3 cr. Undergraduate.
Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism.
Prerequisites: jr st.
Course Rules: FilmStd 350 & Jewish 350 are jointly offered; with the same subtitle, they count as repeats of one another. May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2011, Spring 2009.
Current Offerings: http://uwm.edu/schedule

JEWISH 358 The Jews of Modern Europe: History and Culture
3 cr. Undergraduate/Graduate.
History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.
Prerequisites: jr st.
Course Rules: Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

JEWISH 368 Jewish and Christian Responses to the Holocaust
3 cr. Undergraduate.
Jewish and Christian answers to theological questions raised by the Holocaust, such as 'Where was God?' Focus on interfaith dialogue and understanding.
Prerequisites: jr st.
Course Rules: No cr for students w/cr in Hebr St 254 with same topic. Hebr St 368(268) & Jewish 368(268) are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

JEWISH 379 Introduction to Jewish History
3 cr. Undergraduate.
Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Hist 379 & Jewish 379 are jointly offered; they count as repeats of one another.

General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JEWISH 421 Introduction to Yiddish Literature:
3 cr. Undergraduate.
Development of Yiddish literature from medieval times to the twentieth century; close readings of works of major writers.
Prerequisites: jr st.
Course Rules: In English. May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

JEWISH 449 Modern Jewish Thought
3 cr. Undergraduate.
Historical development of Jewish philosophical thought since the nineteenth century; close readings of influential thinkers of modern and contemporary times.
Prerequisites: jr st.
Course Rules: No cr for students w/cr in Hebr St 499 w/same title.
Last Taught: Fall 2009.
Current Offerings: http://uwm.edu/schedule

JEWISH 489 Internship in Jewish Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Jewish studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above Jewish course; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2013, Summer 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

JEWISH 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2012.
Current Offerings: http://uwm.edu/schedule

JEWISH 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2008.
Current Offerings: http://uwm.edu/schedule
Japanese Courses

JAPAN 100 Introduction to Japanese Literature
3 cr. Undergraduate.
Survey of Japanese literature from the Heian Period to the present day.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAPAN 101 First Semester Japanese
5 cr. Undergraduate.
Beginning Japanese for students with no previous knowledge of the language.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

JAPAN 102 Second Semester Japanese
5 cr. Undergraduate.
Continuation of Japn 101.
Prerequisites: grade of C- or better in Jpn 101(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

JAPAN 110 Japanese Popular Culture
3 cr. Undergraduate.
Elements of popular culture that have come to define modern-day Japan. In English.
Prerequisites: none.
Last Taught: Fall 2014, Spring 2013, Spring 2011.
Current Offerings: http://uwm.edu/schedule

JAPAN 190 Introduction to Japanese Food Studies
3 cr. Undergraduate.
Cultural, historical, geographic, and sociological aspects of Japanese food culture as related to everyday Japanese culinary practices.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

JAPAN 197 First-Year Seminar
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

JAPAN 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule
JAPAN 277 Japanese Discussion Section:
1-2 cr. Undergraduate.
Discussion in Japanese, designed to broaden perspectives, improve language skills. Offered in conjunction with courses in other disciplines (Anthro, Hist, Pol Sci, etc.).
Prerequisites: Japan 202 (Linguistics 242) (P) or cons. instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: [URL]

JAPAN 289 Internship in Japanese, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising faculty member.
Course Rules: One cr for 45 hrs internship. May be retaken to 6 cr max.
Current Offerings: [URL]

JAPAN 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: [URL]

JAPAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: [URL]

JAPAN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: [URL]

JAPAN 301 Fifth Semester Japanese
4 cr. Undergraduate.
Continuation of Japan 202.
Prerequisites: grade of C- or better in Japan 202 (P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [URL]

JAPAN 302 Sixth Semester Japanese
4 cr. Undergraduate.
Continuation of Japan 301.
Prerequisites: grade of C- or better in Japan 301 (P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).
Current Offerings: [URL]

JAPAN 310 Enhanced Knowledge & Skills for the Japanese Language Proficiency Test
3 cr. Undergraduate.
Preparation for levels N2 and N3 of the Japanese Language Proficiency Exam.
Prerequisites: May be retaken to 12 credits max. Prereq; Japan 202 (P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro credits).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [URL]

JAPAN 321 Analyzing Hollywood-Japan Film Remakes
3 cr. Undergraduate.
Prerequisites: jr st.
Course Rules: In English. Counts as a repeat of Japan 499 w/same topic.
Last Taught: Fall 2011.
Current Offerings: [URL]

JAPAN 330 Japanese Language and Culture
3 cr. Undergraduate.
Japanese expression and culture; influence of Japanese history, customs, and geographic features on the Japanese language.
Prerequisites: Prereq; Japan 202 (Linguistics 242) (P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro credits).
Current Offerings: [URL]

JAPAN 331 Reading Japanese Short Stories
3 cr. Undergraduate.
Introduction to Japanese short stories to improve reading skills, vocabulary, and understanding of Japanese culture.
Prerequisites: Japan 202 (P).
Course Rules: Generates L&S credits for demonstrated equivalent preparation (14 retro crs).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: [URL]

JAPAN 332 Extensive Reading in Japanese
1 cr. Undergraduate.
Reading practice utilizing easy readers, children's books, manga, and novels. Counts as repeat of Japan 299 w/similar topic. May be retaken w/chg in topic to 3 cr max.
Prerequisites: jr st, Japan 101 (P).
Last Taught: Spring 2018.
Current Offerings: [URL]

JAPAN 351 Japanese Performance Traditions
3 cr. Undergraduate.
Japanese performance of drama and comedy from noh and kabuki to modern performance.
Prerequisites: jr st; satisfaction of OWC-A GER.
General Education Requirements: HU, OWCB
Current Offerings: [URL]
JAPAN 352 Japanese Performance Traditions: Readings
1 cr. Undergraduate.
Readings in Japanese performance texts from medieval noh scripts to modern Japanese theater.
Prerequisites: jr st or cons inst.; completion of OWC-A GER; Japan 351(C)
Current Offerings: http://uwm.edu/schedule

JAPAN 355 Seminar in Japanese Literature and Culture:
3 cr. Undergraduate.
Readings and discussion in English on selected topics in Japanese literature and culture.
Prerequisites: jr st; completion of Oral and Written Communication (OWC) Competency Part A.
Course Rules: May be retaken to a max. of 9 crs.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

JAPAN 361 Translating Japanese Media
3 cr. Undergraduate.
Development of the vocabulary, grammar knowledge, translating skills, and cultural sensitivities necessary to produce viable translations.
Prerequisites: Japan 202(P).
Course Rules: Generates L&S credits for demonstrated equivalent preparation (14 retro crs).
Last Taught: Fall 2017, Fall 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

JAPAN 370 Fun Kanji
2 cr. Undergraduate.
Extensive practice in use of kanji, in order to enhance students’ ability to read Japanese materials fluently.
Prerequisites: jr st and Japan 101(P).
Course Rules: Counts as repeat of Japan 299 w/ similar topic.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

JAPAN 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially-prepared program coursework.
Prerequisites:
Last Taught: Summer 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

JAPAN 401 Seventh Semester Japanese
4 cr. Undergraduate.
Continuation of Japan 302.
Prerequisites: grade of C- or better in Japan 302(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro crs).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JAPAN 402 Eighth Semester Japanese
4 cr. Undergraduate.
Continuation of Japan 401.
Prerequisites: grade of C- or better in Japan 401(P). Generates L&S credits for demonstrated equivalent preparation (16 retro crs).
Current Offerings: http://uwm.edu/schedule

JAPAN 416 Introduction to Translation: Japanese to English
3 cr. Undergraduate.
Basic skills for translating texts from Japanese to English; focus on articles and documents encountered in business, banking, legal, medical, and academic contexts.
Prerequisites: jr st; grade of B or better in 300-level or above Japanese language course.
Last Taught: Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

JAPAN 441 Business Japanese I
3 cr. Undergraduate.
Language and cultural studies that develop the practical knowledge and skills needed for doing business with Japan.
Prerequisites: Japan 302(P).
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

JAPAN 489 Internship in Japanese, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 GPA; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Last Taught: Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JAPAN 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program coursework.
Prerequisites:
Last Taught: Summer 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

JAPAN 500 Research and Research Writing in Japanese
3 cr. Undergraduate.
Capstone course for Japanese major. Students conduct research in Japanese and produce a thesis and presentation based on that research.
Prerequisites: grade of B- or better in Japan 401(P); pass level N3 of Japanese Language Proficiency Test; or cons instr.
Course Rules: Not open to students who have completed Japanese capstone req under FLL 499 or Japan 699.
Current Offerings: http://uwm.edu/schedule
Korean Courses

KOREAN 101 First-Semester Korean
5 cr. Undergraduate.
Beginning Korean for students with no previous knowledge of the language.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

KOREAN 102 Second-Semester Korean
5 cr. Undergraduate.
Continuation of Korean 101.
Prerequisites: Korean 101(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: http://uwm.edu/schedule

KOREAN 192 First-Year Seminar:
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Yr Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

KOREAN 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

KOREAN 201 Third Semester Korean
5 cr. Undergraduate.
Continuation of Korean 102.
Prerequisites: Korean 102(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

KOREAN 202 Fourth Semester Korean
5 cr. Undergraduate.
Continuation of Korean 201.
Prerequisites: Korean 201(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
Current Offerings: http://uwm.edu/schedule

KOREAN 221 Korean Culture and Society
3 cr. Undergraduate.
Exploration of Korean history, language, religion, and social values through literature, film, and discussion.
Prerequisites: none.
Course Rules: Counts as a repeat of FLL 216 w/same topic.
General Education Requirements: HU
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

KOREAN 289 Internship in Korean, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Korean in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.5 GPA; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

KOREAN 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: http://uwm.edu/schedule

KOREAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
KOREAN 299 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period.  
Requires only dept & assoc dean approval. In exceptional circumstances,  
can be offered in one add'l sem.  
Prerequisites: none; add'l prereqs may be assigned to specific topic.  
Course Rules: May be retaken w/chg in topic.  
Last Taught: Spring 2017.  
Current Offerings: http://uwm.edu/schedule

KOREAN 489 Internship in Korean, Upper Division  
1-6 cr. Undergraduate.  
Application of basic principles of Korean in business, organizational,  
educational, political, or other appropriate setting.  
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.  
Course Rules: One cr earned for academic work based on 40 hrs in  
imternship. May be retaken to 6 cr max.  
Current Offerings: http://uwm.edu/schedule

KOREAN 497 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course  
work level, content, and credits are determined and/or in specially  
prepared program course work.  
Prerequisites: jr st; acceptance for Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Last Taught: Spring 2017, Fall 2015, Spring 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

KOREAN 499 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period.  
Requires only dept & assoc dean approval. In exceptional circumstances,  
can be offered in one add'l sem.  
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: http://uwm.edu/schedule

KOREAN 497 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course  
work level, content, and credits are determined and/or in specially  
prepared program course work.  
Prerequisites: jr st; acceptance for Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: http://uwm.edu/schedule

KOREAN 699 Advanced Independent Study  
1-3 cr. Undergraduate.  
Advanced level independent work under the supervision of a Korean  
faculty or academic staff member.  
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for  
SAS.  
Course Rules: May be retaken w/chg in topic to 9 cr max.  
Last Taught: Fall 2016, Fall 2015, Fall 2014, Spring 2013.  
Current Offerings: http://uwm.edu/schedule

Polish Courses

POLISH 101 First-Semester Polish  
5 cr. Undergraduate.  
A systematic introduction to the Polish language.  
Prerequisites: none.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

POLISH 102 Second-Semester Polish  
5 cr. Undergraduate.  
Continuation of Polish 101.  
Prerequisites: Polish 101(P). Generates L&S credit for demonstrated  
equivalent preparation (4 retro cr).  
Current Offerings: http://uwm.edu/schedule

POLISH 192 First-Year Seminar:  
3 cr. Undergraduate.  
Specific topics are announced in the Schedule of Classes each time the  
class is offered.  
Prerequisites: none.  
Course Rules: Open only to freshmen. Students may earn cr in just one  
L&S First-Year Sem (course numbers 192, 193, 194).  
General Education Requirements: HU  
Current Offerings: http://uwm.edu/schedule

POLISH 197 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enable students studying language abroad to receive course  
credit at appropriate level.  
Prerequisites: acceptance in Study Abroad Prog.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: http://uwm.edu/schedule

POLISH 199 Independent Study  
1-4 cr. Undergraduate.  
For further information, consult dept chair.  
Prerequisites: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.  
Course Rules: May be retaken to 6 cr max.  
Last Taught: Spring 2018, Fall 2016, Spring 2015, Fall 2010.  
Current Offerings: http://uwm.edu/schedule

POLISH 201 Third-Semester Polish  
3 cr. Undergraduate.  
Review of grammar and readings.  
Prerequisites: Polish 102(P). Generates L&S credit for demonstrated  
equivalent preparation (8 retro cr).  
Last Taught: Fall 2017, Fall 2014, Fall 2012, Fall 2009.  
Current Offerings: http://uwm.edu/schedule

POLISH 202 Fourth-Semester Polish  
3 cr. Undergraduate.  
Continuation of Polish 201.  
Prerequisites: Polish 201(P). Generates L&S credit for demonstrated  
equivalent preparation (11 retro cr).  
Current Offerings: http://uwm.edu/schedule

POLISH 213 Grammar for Students of Foreign Languages  
3 cr. Undergraduate.  
An introduction to the grammatical concepts useful in studying foreign  
languages.  
Prerequisites: none.  
Course Rules: Jointly offered with, and may be used to repeat, Classic  
213, English 213, French 213, German 213, Italian 213, Linguist 213,  
Russian 213, & Spanish 213.  
Current Offerings: http://uwm.edu/schedule
POLISH 236 Polish Culture in its Historical Setting
3 cr. Undergraduate.
Major achievements of Polish culture during ten centuries of existence. Art, architecture, literature, music, and film viewed against crucial historical developments that formed Poland and its people.
Prerequisites: none.
Course Rules: May be used to repeat Geog 236.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2011.
Current Offerings: http://uwm.edu/schedule

POLISH 260 Survey of Polish Literature-in-Translation: 1863 to the Present
3 cr. Undergraduate.
Prerequisites: none. One course in 100-level lit-in-trans or 200-level English lit advisable.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

POLISH 289 Internship in Polish, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Polish in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Polish; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

POLISH 290 Summer Study in Poland:
2-6 cr. Undergraduate.
Studies in Polish language, culture and civilization at a Polish university; lectures and field trips; credit level determined by length of program.
Prerequisites: cons instr.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

POLISH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

POLISH 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

POLISH 489 Internship in Polish, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Polish in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Polish; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

POLISH 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

POLISH 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

POLISH 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

POLISH 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

POLISH 99 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 1998.
Current Offerings: http://uwm.edu/schedule
POLISH 699 Supervised Individual Reading
1-6 cr. Undergraduate.
Advanced independent work under the supervision of a Slavic Lang faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Slavic Lang prog coord.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

Russian Courses

RUSSIAN 101 First-Semester Russian
5 cr. Undergraduate.
A systematic introduction to the Russian language.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 102 Second-Semester Russian
5 cr. Undergraduate.
Continuation of Russian 101.
Prerequisites: Russian 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: http://uwm.edu/schedule

RUSSIAN 192 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

RUSSIAN 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 199 Independent Study
1-4 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: soph st, gpa 2.5 or above & writ cons instr, dept chair, & asst dean for SAS.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 201 Third-Semester Russian
4 cr. Undergraduate.
Review of grammar; practice in speaking, reading, and translation with integrated laboratory work.
Prerequisites: Russian 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 202 Fourth-Semester Russian
4 cr. Undergraduate.
Continuation of Russian 201.
Prerequisites: Russian 201(P). Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
Current Offerings: http://uwm.edu/schedule

RUSSIAN 210 Russian Literacy for Native and Heritage Speakers
4 cr. Undergraduate.
Fundamentals of written Russian for native and heritage speakers: alphabet, orthography, grammar, style. Designed to develop language skills at the level of fourth-semester Russian.
Prerequisites: none.
Course Rules: Open only to native and heritage speakers of Russian with little or no formal schooling in the former Soviet Union. Generates L&S credits for demonstrated equivalent preparation (12 retro cr).
Last Taught: Fall 2010.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Linguis 213, Polish 213, & Spanish 213.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 235 Survey of Nineteenth-Century Russian Literature in Translation
3 cr. Undergraduate.
Selected major authors representing main trends.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

RUSSIAN 236 Survey of Twentieth-Century Russian Literature in Translation
3 cr. Undergraduate.
Selected pre- and post-revolutionary writers and movements.
Prerequisites: one course in 100-level lit-in-trans or 200-level English lit advisable.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule
RUSSIAN 245 Russian Life and Culture
3 cr. Undergraduate.
Historical survey of Russian cultural patterns: themes, influences, religion, literature, architecture, music, daily life.
Prerequisites:

General Education Requirements: OWCB, HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 260 Topics in Slavic Culture:
1 cr. Undergraduate.
Exploration of a topic related to Slavic or folklore.
Prerequisites: none.
Course Rules: Counts as repeat of Russian 299 w/similar topic. May be retaken to 3 cr max.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 277 Russian Discussion Section:
1-2 cr. Undergraduate.
Discussion in Russian, designed to broaden perspectives, improve language skills.
Prerequisites: Russian 202(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 289 Internship in Russian, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Russian in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Russian; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2011, Spring 2009.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2016, Summer 2012, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2016, Fall 2015, Spring 2006, Fall 2005.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 310 Advanced Russian Reading and Conversation:
3 cr. Undergraduate/Graduate.
Development of advanced reading, speaking, and writing skills. Readings and films focus on Russian life and culture. Topic varies each semester.
Prerequisites: jr st; Russian 202(P), 210(P), or cons instr. Generates L&S cr for demonstrated equivalent preparation (16 retro crs).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 311 Contemporary Russian Language:
3 cr. Undergraduate/Graduate.
Development of practical communication skills. Focus varies each semester.
Prerequisites: jr st; Russian 202(P), 210(P), or cons instr. Generates L&S cr for demonstrated equivalent preparation (16 retro crs).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 350 Dostoevsky and Tolstoy in Translation: Major Works
3 cr. Undergraduate.
Close readings of the masterworks of Tolstoy and Dostoevsky in historical context; consideration of their impact on Russian and Western art and social thought.
Prerequisites: jr st.
Course Rules: No knowledge of Russian req'd.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

RUSSIAN 360 Bulgakov, Pasternak and Solzhenitsyn in Translation
3 cr. Undergraduate.
Reading and discussion of the major works of three outstanding Russian writers of the 20th century, two of them recent controversial Nobel prize winners.
Prerequisites: 5 crs in lit-in-trans and/or 200-level English lit courses.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

RUSSIAN 361 Russian and Slavic Folklore
3 cr. Undergraduate.
Folk beliefs of the past thousand years, including medieval folk epics, fairy tales, and legends; impact of ancient pagan beliefs on contemporary Slavic cultures.
Prerequisites: jr st.
Course Rules: Counts as repeat of Russian 391 w/same topic. ReligSt 361 & Russian 361 are jointly offered; they count as repeats of one another.
General Education Requirements: OWCB, HU
Current Offerings: http://uwm.edu/schedule

RUSSIAN 391 Russian Literature and Culture in Translation:
3 cr. Undergraduate.
Topics on Russian literature and culture in their historical and cultural contexts. Influences in modern Russian culture.
Prerequisites: jr st.
Course Rules: To count toward the Russian major or minor, coursework must be done in Russian. May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Fall 2015, Spring 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule
RUSSIAN 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 419 Introduction to Translation: Russian to English
3 cr. Undergraduate.
Translation process as combination of linguistic, cultural, ethical, and logistic challenges; translation strategies for business, media, academic, legal, commercial, medical, technical, and popular culture documents.
Prerequisites: jr st; grade of B or better in 300-level or above Russian language course.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 429 Seminar in Advanced Russian Translation: Russian to English
3 cr. Undergraduate.
Translation of ideas and conceptual knowledge in subject areas including economics, law, society, culture, and history.
Prerequisites: jr st; grade of B or better in Russian 419(P).
Current Offerings: http://uwm.edu/schedule

RUSSIAN 489 Internship in Russian, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Russian in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Russian; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2014.
Current Offerings: http://uwm.edu/schedule

RUSSIAN 699 Supervised Individual Reading
1-6 cr. Undergraduate.
Advanced independent work under the supervision of a Slavic Lang faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Slavic Lang prog coord.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

Scandinavian Studies Courses

SCNDVST 101 First-Semester Swedish
4 cr. Undergraduate.
Introductory course for students who have not studied Swedish previously. Oral practice, grammar, and reading.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SCNDVST 102 Second-Semester Swedish
4 cr. Undergraduate.
Continuation of ScndvSt 101 (German 180).
Prerequisites: ScndvSt 101(German 180)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: http://uwm.edu/schedule

SCNDVST 192 First-Year Seminar
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
SCNDVST 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SCNDVST 203 Third-Semester Swedish
3 cr. Undergraduate.
Continuation of ScndvSt 102 (German 181).
Prerequisites: ScndvSt 102(German 181)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2016, Summer 2016, Fall 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

SCNDVST 204 Fourth-Semester Swedish
3 cr. Undergraduate.
Continuation of ScndvSt 203 (German 280).
Prerequisites: ScndvSt 203(German 280)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Current Offerings: http://uwm.edu/schedule

SCNDVST 289 Internship in Scandinavian Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

SCNDVST 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hours research.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 6 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: http://uwm.edu/schedule

SCNDVST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Program.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

SCNDVST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.
Prerequisites: none; additional prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

SCNDVST 331 Intermediate Swedish Grammar and Writing
3 cr. Undergraduate.
Review of major structures in Swedish grammar; application of those structures through writing and speaking. Emphasis on written accuracy and proficiency for academic/non-academic purposes.
Prerequisites: ScndvSt 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2013.
Current Offerings: http://uwm.edu/schedule

SCNDVST 332 Analysis of Swedish Texts
3 cr. Undergraduate.
Authentic Swedish texts of different types with varied content and viewpoints. Overview of basic textual analysis skills; reading strategies; vocabulary and language skills.
Prerequisites: ScndvSt 204(P) or equiv; ScndvSt 331(R). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

SCNDVST 426 Introduction to Translation: Swedish to English
3 cr. Undergraduate.
Basic skills for Swedish to English translation using authentic texts from a variety of fields; translation strategies and tools; issues in grammar and style.
Prerequisites: jr st; ScndvSt 204(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

SCNDVST 489 Internship in Scandinavian Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.
Prerequisites: jr st; ScndvSt 204(P) or equiv; ScndvSt 331(R). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

SCNDVST 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Program.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

SCNDVST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.
Prerequisites: jr st; addl prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
### SCNDVST 699 Advanced Independent Study

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of ScndvSt faculty or academic staff member.

**Prerequisites:** jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Current Offerings:** http://uwm.edu/schedule

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachel Baum</td>
<td>Senior Lecturer (Hebrew/Jewish Studies)</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yael Ben-Yitschak</td>
<td>Lecturer (Hebrew/Jewish Studies)</td>
<td>BA</td>
<td>University of Haifa, Isreal</td>
<td></td>
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</tr>
<tr>
<td>Joel Berkowitz</td>
<td>Professor (Hebrew/Jewish Studies)</td>
<td>PhD</td>
<td>City University of New York</td>
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</tr>
<tr>
<td>Viktorija Blic</td>
<td>Assistant Professor (German and Translation)</td>
<td>PhD</td>
<td>Heidelberg University, Germany</td>
<td></td>
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</tr>
<tr>
<td>Atsuko Borgmann</td>
<td>Senior Lecturer (Japanese)</td>
<td>MA</td>
<td>University of Illinois at Urbana-Champaign</td>
<td></td>
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</tr>
<tr>
<td>Renee Calkins</td>
<td>Visiting Assistant Professor (Classics)</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
<td></td>
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</tr>
<tr>
<td>Elisabetta Cova</td>
<td>Associate Professor (Classics)</td>
<td>PM</td>
<td>University of Cambridge, U.K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garry W. Davis</td>
<td>Professor (Department of Linguistics, German)</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
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</tr>
<tr>
<td>Nina Familiant</td>
<td>Lecturer (Russian)</td>
<td>PhD</td>
<td>University of Wisconsin, Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Katherina P. Filipsi-Juswigg</td>
<td>Professor (Slavic Languages)</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
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<tr>
<td>James Frankki</td>
<td>Lecturer (German)</td>
<td>PhD</td>
<td>University of Wisconsin – Madison</td>
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<tr>
<td>Bernhard J. Grossfeld</td>
<td>Professor (Hebrew Studies)</td>
<td>PhD</td>
<td>University of Wisconsin – Madison</td>
<td></td>
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<tr>
<td>Robert A. Jones</td>
<td>Professor (German)</td>
<td>PhD</td>
<td>University of Wisconsin – Madison</td>
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</tr>
<tr>
<td>Khuloud Labanieh</td>
<td>Lecturer (Education, Arabic)</td>
<td>MA</td>
<td>Cardinal Stritch University</td>
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</tr>
<tr>
<td>Masako Lackey</td>
<td>Senior Lecturer (Applied Linguistics, Japanese)</td>
<td>MA</td>
<td>University of Wisconsin, Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sooyeon Lee</td>
<td>Lecturer (Linguistics, Korean)</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee, Coordinator, Korean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Veronica Lundback</td>
<td>Senior Lecturer (Scandinavian Studies)</td>
<td>MA</td>
<td>University of Wisconsin - Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dana Margolis</td>
<td>Senior Lecturer (Hebrew Studies)</td>
<td>MSCR</td>
<td>University of Texas - Austin</td>
<td></td>
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</tr>
<tr>
<td>Karolina May-Chu</td>
<td>Assistant Professor (German)</td>
<td>PhD</td>
<td>University of Wisconsin – Madison</td>
<td></td>
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</tr>
<tr>
<td>Yair Mazor</td>
<td>Professor (Hebrew Studies)</td>
<td>PhD</td>
<td>Tel Aviv University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael J. Mikos</td>
<td>Professor (Polish, Slavic Languages)</td>
<td>PhD</td>
<td>Brown University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richard C. Monti</td>
<td>Professor (Classics)</td>
<td>PhD</td>
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</tr>
<tr>
<td>David D. Mulroy</td>
<td>Professor (Classics)</td>
<td>PhD</td>
<td></td>
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</tr>
<tr>
<td>Meghan Murphy-Lee</td>
<td>Senior Lecturer (Russian)</td>
<td>PhD</td>
<td>University of Kansas</td>
<td></td>
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<tr>
<td>Kevin Muse</td>
<td>Associate Professor (Classics)</td>
<td>PhD</td>
<td>University of North Carolina at Chapel Hill</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Andrew Olson</td>
<td>Lecturer (Chinese)</td>
<td>MA</td>
<td>University of Wisconsin - Milwaukee</td>
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<td></td>
</tr>
</tbody>
</table>
Arabic, Minor

Arabic is one of the main languages of the Middle East. Its influence is felt in related languages and dialects such as Urdu and Kurdish, it is the language of the Quran, and is the fifth most common language with more than 375 million native speakers. Westerners with Arabic fluency are in high demand as the global influence of the Middle East continues to grow.

The Department of Foreign Languages and Literature offers six semesters of instruction in Arabic language leading to a minor.

Arabic courses may be of particular interest to students in the certificate in Middle Eastern and North African studies, the international studies major, the linguistics major, and the global studies degree program.

The U.S. State Department includes Arabic in its scholarship and training program for critically-needed languages.

Requirements

Retro credits earned at the 200-level or above may count toward the minor. Students who begin their Arabic studies in higher-level courses may need to take additional credits, approved by the Arabic language coordinator, to reach a minimum of 18 credits in Arabic.

A minimum of nine credits must be taken at the 300-level or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. Students entering with no previous Arabic language experience should enroll in ARABIC 101. Students entering with previous knowledge of, or high school preparation in, Arabic, or transfer students who have studied Arabic in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Arabic program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits, to a maximum of 16 credits (no more than 4 credits for any single course), for the courses leading to the one into which they placed.

The minor in Arabic consists of a minimum of 18 credits, with the following courses (or equivalents) required:
Students are encouraged to start planning early in sophomore year. Most students are aware of the complexities of planning a study abroad experience, students are aware that study abroad programs include a few week immersion, to semester-long, to even a full year. Because of the available programs in more than 70 sites around the world and vary in length from one week to a full year. Students are encouraged to participate in UWM’s well-established study abroad programs. Destinations are available in more than 70 sites around the world and vary in length from one week to a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Requirements

The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. Substitutions for some course requirements are possible and may include internships with firms doing business in German-speaking countries. Students also have the option of completing a Certificate in Business German offered by the Goethe Institut. For further information, consult the German Program Coordinator.

The business German minor consists of a minimum of 18 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 331</td>
<td>Intermediate German Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 332</td>
<td>Intermediate Conversation and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 333</td>
<td>Analysis of German Texts</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 360</td>
<td>German for the Global World</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 672</td>
<td>German for Professional Purposes</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

## Contact Information

Current Students contact Associate Professor Hamid Ouali, ouali@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/foreign-languages-literature/undergraduate/arabic/

## Business German, Minor

German is the third most studied foreign language in the world, and, at UWM, we offer more than just instruction in language. In addition to German fluency, students learn how to apply that fluency by studying German culture, literature, customs, and history.

Wisconsin has a strong German heritage and many students find it both professionally useful and personally satisfying to explore the State’s German influences. Many may come into college having already taken German in high school. Students can take a placement test to determine their starting course and may be able to earn retroactive credits if they place above the level of GERMAN 101.

Fluency in German can provide a career advantage in all types of industries where Germany and other German-speaking countries are leaders: finance, marketing, manufacturing, politics, government work, electronics and technology, chemical and biochemical, environmental science, and architecture. At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of German in order to successfully apply their fluency.

A general minor in German is available, and there is a minor in Business German. The Business German minor is ideal for students interested in German business concepts, perhaps in preparation for an international business career. In addition to German language and culture classes, students take accounting or marketing classes from UWM’s Lubar School of Business.

Students are encouraged to participate in UWM’s well-established study abroad program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Requirements

The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. Substitutions for some course requirements are possible and may include internships with firms doing business in German-speaking countries. Students also have the option of completing a Certificate in Business German offered by the Goethe Institut. For further information, consult the German Program Coordinator.

The business German minor consists of a minimum of 18 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARABIC 301</td>
<td>Third Semester Arabic</td>
<td>5</td>
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<tr>
<td>ARABIC 302</td>
<td>Fourth Semester Arabic</td>
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</tr>
<tr>
<td>ARABIC 301</td>
<td>Fifth Semester Arabic</td>
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<tr>
<td>ARABIC 302</td>
<td>Sixth Semester Arabic</td>
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<td>Select one of the following: 1</td>
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<td>3</td>
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<tr>
<td>ARABIC 489</td>
<td>Internship in Arabic, Upper Division</td>
<td></td>
</tr>
<tr>
<td>ARABIC 497</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>ARABIC 499</td>
<td>Ad Hoc:</td>
<td></td>
</tr>
<tr>
<td>ARABIC 699</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 19

1 Or an upper-level culture course, at least 3 credits, approved by the Arabic Program Coordinator.

## Contact Information

Current Students contact Associate Professor Hamid Ouali, ouali@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/foreign-languages-literature/undergraduate/arabic/
intermediate level language courses and must complete at least one additional elective course.

Students are encouraged to participate in UWM's well-established study abroad (http://uwm.edu/cie/study-abroad) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements

The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

The minor in Chinese consists of 19 credits distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHINESE 201</td>
<td>Third Semester Chinese</td>
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</tr>
<tr>
<td>CHINESE 202</td>
<td>Fourth Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
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<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
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<td>Select one of the following:</td>
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<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
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<tr>
<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
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<tr>
<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
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<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
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<tr>
<td>CHINESE 497</td>
<td>Study Abroad:</td>
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<tr>
<td>CHINESE 699</td>
<td>Advanced Independent Study</td>
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<tr>
<td>Total Credits</td>
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<td>21</td>
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</tbody>
</table>

Contact Information

Current Students contact Senior Lecturer Andrew Olson, asolson@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/chinese/undergraduate/

Classics, BA

Classics is the study of the literature, languages, cultures and societies of ancient Greece and Rome. It is one of the oldest of the liberal arts disciplines.

The popularity of movies like 300, Gladiator, and Troy, have renewed students' interest in mythology and the study of classics.

Whether you choose to major in Classics or just take a few classes of interest, students in this field are exposed to the history, literature, art and architecture, archaeology, language, and religion of ancient times. Many classes are in English but some offer the subject matter in its original format of Greek or Latin. Many pre-med majors also find that an introduction to Latin vocabulary serves as an exceptional preparation for medical school where much of the terminology originated from Latin.

What can you do with a Classics major? Classics is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, and oral and written communication. Law school is a popular destination after college, though certainly not the only option. A student's career choices after college will be guided by how they applied their coursework to real world applications during college. A student who volunteered and interned in museums and galleries may find work in that industry. A student who obtained work experience during college in library reference may pursue that line of work after graduation. The possibilities are numerous, and all students are encouraged to gain practical experience that complements the major.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>Oral and Written Communication</td>
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<tr>
<td>Part A</td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<tr>
<td>Part B</td>
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<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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Quantitative Literacy

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<tbody>
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<td>Select one of the following:</td>
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<td>MATH 103</td>
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<td>MATH 105</td>
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<td>MATH 108</td>
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<td>Or equivalent course</td>
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<table>
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<tr>
<th>Part B</th>
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Arts

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<th>Select 3 credits</th>
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Humanities

<table>
<thead>
<tr>
<th>Select 6 credits</th>
</tr>
</thead>
</table>

Social Sciences

<table>
<thead>
<tr>
<th>Select 6 credits</th>
</tr>
</thead>
</table>

Natural Sciences
College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credits (at least two courses including one lab) 6

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways: 1</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways: 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways: 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways: 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.
VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Major Requirements

There are three major concentrations:

- Classical Civilization
- Ancient Greek Language and Literature
- Classical Latin Language and Literature

Students who major in a Classics Program concentration must complete at least 15 credits of the major in 300-level or above courses in residence at UWM. All students must complete a research experience in their major. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM, including any transfer work.

Classical Civilization Major Concentration

This Concentration is intended for students who wish to study classical literature and culture without pursuing coursework in the original languages. Courses in ancient Greek and Latin are optional and may count toward fulfilling major requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASSIC 170</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 201</td>
<td>Introduction to Greek Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 202</td>
<td>Introduction to Roman Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
<td>3</td>
</tr>
<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
<td>3</td>
</tr>
<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought: (Paganism in the Ancient World)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Topics in European History: (Rome in the Age of Constantine − Society and Culture)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar: (Pagans and Christians in the Roman Empire or Medicine and Healing in Ancient Greece and Rome)</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 551</td>
<td>Aristotle</td>
<td>3</td>
</tr>
</tbody>
</table>
Ancient Greek Language and Literature Major Concentration

The Ancient Greek Language and Literature major concentration requires the completion of 33 credits, including the following. A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Greek or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEK 103</td>
<td>First Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 104</td>
<td>Second Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 205</td>
<td>Third Semester Greek (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>CLASSIC 201</td>
<td>Introduction to Greek Life and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select four additional courses in Greek at the 300 level or above
Select six additional credits chosen from Greek, Latin, and/or Classic courses

Total Credits 33

Classical Latin Language and Literature Major Concentration

The Classical Latin Language and Literature concentration requires the completion of 33 credits, including the following. A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Latin or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATIN 103</td>
<td>First Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 104</td>
<td>Second Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 205</td>
<td>Third Semester Latin (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>CLASSIC 202</td>
<td>Introduction to Roman Life and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select four additional courses in Latin courses at the 300 level or above
Select six additional credits chosen from Latin, Greek, and/or Classic courses

Total Credits 33

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

The Undergraduate Faculty Advisor for Classics is Associate Professor Elisabetta Cova, covae@uwm.edu.

Honors in the College of Letters and Science

Dean's Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Associate Professor Andrew Porter, porter@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
Classics, Minor

Classics is the study of the literature, languages, cultures and societies of ancient Greece and Rome. It is one of the oldest of the liberal arts disciplines.

The popularity of movies like 300, Gladiator, and Troy, have renewed students’ interest in mythology and the study of classics.

Whether you choose to major or minor in Classics or just take a few classes of interest, students in this field are exposed to the history, literature, art and architecture, archaeology, language, and religion of ancient times. Many classes are in English but some offer the subject matter in its original format of Greek or Latin. Many pre-med majors also find that an introduction to Latin vocabulary serves as an exceptional preparation for medical school where much of the terminology originated from Latin.

Classics is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, and oral and written communication. Law school is a popular destination after college, though certainly not the only option. A student’s career choices after college will be guided by how they applied their coursework to real world applications during college.

A student who volunteered and interned in museums and galleries may find it is less difficult than they lead themselves to believe. Successful speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful

Requirements

There are three minor concentrations:

• Classical Civilization
• Ancient Greek Language and Literature
• Classical Latin Language and Literature

Completion of each minor concentration requires a minimum of 21 credits, at least 9 of which must be upper-division courses (300 level and above) completed in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Minor Concentration in Classical Civilization

The Classical Civilization minor concentration requires completion of a minimum of 21 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASSIC 170</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 201</td>
<td>Introduction to Greek Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 202</td>
<td>Introduction to Roman Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Select six additional credits in Classic (not Greek or Latin language) curricular area courses at the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select six credits from among any Classic, Greek, or Latin courses (at least 3 of these credits must be at the 300 level or above)</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 21

Minor Concentration in Ancient Greek Language and Literature

The Ancient Greek Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEK 103</td>
<td>First Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 104</td>
<td>Second Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 205</td>
<td>Third Semester Greek (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>Select 6 credits in Greek at the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in Greek or Classic at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 21

Minor Concentration in Classical Latin Language and Literature

The Classical Latin Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATIN 103</td>
<td>First Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 104</td>
<td>Second Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 205</td>
<td>Third Semester Latin (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>Select 6 credits in Latin at the 300 level or above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in Latin or Classic at the 300 level or above</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 21

Contact Information

Current Students contact Associate Professor Andrew Porter, portera@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/foreign-languages-literature/undergraduate/classics/

Committee Interdisciplinary Major, BA: Chinese Language and Culture

The Committee Interdisciplinary Major with a focus in Chinese language and culture is a vital program with growing importance and value as China expands its role as a super power in world economics, manufacturing, technology, and politics.

Each year more and more students are joining the ranks of the 1.4 billion people who speak Mandarin, the official language of the People’s Republic of China and of Taiwan.

Many students now can find Chinese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Chinese language instruction. We offer eight semesters of Chinese language, and equally as important, we offer an array of classes on Chinese culture. Students can explore classes in Chinese art, Chinese film, the use of Chinese in business settings, Chinese and Asian history, and the politics and religions of the region.

While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful
students of Chinese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

Students are encouraged to participate in UWM’s well-established study abroad (http://uwm.edu/cie/study-abroad) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements
Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
</tbody>
</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Part A</th>
<th>Select one of the following:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
</tbody>
</table>

| Part B   | Course designated as QL-B; may be completed through a major-specific course requirement |         |

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
</tbody>
</table>
### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Chinese 1</td>
<td>0-18</td>
</tr>
<tr>
<td>102</td>
<td>Chinese 2</td>
<td>0-18</td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>English 1</td>
<td>9</td>
</tr>
<tr>
<td>102</td>
<td>English 2</td>
<td>9</td>
</tr>
</tbody>
</table>

**Note:** Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

**Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

### Major Requirements

The Chinese Language and Culture program requires completion of 30 credits in approved Chinese and related courses. Students in the major must complete the fifth- through eighth-semester Chinese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced level (300 and above) taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Chinese. The College requires that students attain at least a 2.500 GPA on all major credits attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Fifth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>302</td>
<td>Sixth Semester Chinese</td>
<td>4</td>
</tr>
<tr>
<td>401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>402</td>
<td>Eighth Semester Chinese</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Committee Interdisciplinary Major, BA: Chinese Language and Culture

**Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 330</td>
<td>Chinese Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
<td>3</td>
</tr>
<tr>
<td>FLL 699</td>
<td>Advanced Independent Study (satisfies the research requirement of the L&amp;S degree)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (Hong Kong Cinema)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 377</td>
<td>Modern China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 314</td>
<td>Chinese Politics and Foreign Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the College of Letters and Science**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.
Japan is a very popular destination for study abroad and repeat...and practice and repeat. Students of Japanese will dedicate the necessary daily time to practice and find it is less difficult than they lead themselves to believe. Successful speakers because of their vast differences from English, students often travel or hospitality industry, business, technology, finance or sales. Many students are also interested in careers related to Anime or translation, interpretation, government relations, social services, the travel or hospitality industry, business, technology, finance or sales. Many students are also interested in careers related to Anime or technology, both large industries in Japan. A major in Japanese combined with technology and science training is excellent preparation for entry into those fields. Many students now can find Japanese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Japanese language instruction. We offer eight semesters of Japanese language plus the vitally important courses the first semester of Japanese language instruction. We offer eight semesters of Japanese language plus the vitally important courses. A Committee Interdisciplinary Major with a focus on Japanese language and culture can be the first step towards a career path in teaching, translation, interpretation, government relations, social services, the travel or hospitality industry, business, technology, finance or sales. Many students are also interested in careers related to Anime or computer technology, both large industries in Japan. A major in Japanese combined with technology and science training is excellent preparation for entry into those fields. Many students now can find Japanese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Japanese language instruction. We offer eight semesters of Japanese language plus the vitally important courses about Japanese culture, business practices, values, politics, history, and religions. While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful students of Japanese will dedicate the necessary daily time to practice and repeat...and practice and repeat. Japan is a very popular destination for study abroad (http://uwm.edu/cie/study-abroad), and Japanese majors are encouraged to take advantage of the opportunities available through UWM. Programs vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as(QL-B); may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
</tbody>
</table>
UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement.

College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 106</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
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<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
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<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

III. Foreign Language Requirement
Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ ) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

*Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)
*Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

**Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ ) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
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</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
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</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *

Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Major Requirements
The Japanese Language and Culture program requires completion of 30 credits in approved Japanese and related courses. Students in the major must complete the fifth- through eighth-semester Japanese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced (300 and above) level taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Japanese. The College requires that students attain at least a 2.500 GPA on all major credits attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPAN 301</td>
<td>Fifth Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPAN 302</td>
<td>Sixth Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPAN 401</td>
<td>Seventh Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPAN 402</td>
<td>Eighth Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 330</td>
<td>Japanese Language and Culture</td>
<td></td>
</tr>
<tr>
<td>JAPAN 331</td>
<td>Reading Japanese Short Stories</td>
<td></td>
</tr>
<tr>
<td>JAPAN 361</td>
<td>Translating Japanese Media</td>
<td></td>
</tr>
<tr>
<td>JAPAN 441</td>
<td>Business Japanese I</td>
<td></td>
</tr>
</tbody>
</table>

Research
Select one of the following courses to satisfy the research requirement of the L&S degree:
- JAPAN 351 Japanese Performance Traditions
- JAPAN 361 Translating Japanese Media
- JAPAN 500 Research and Research Writing in Japanese

Electives
Select 8 credits (see below) **

Study Abroad
Study Abroad is strongly encouraged 4

Total Credits
30

1. Students whose language skills allow them to begin their study of Japanese beyond the fifth semester course must discuss with the advisor appropriate substitute courses in order to complete the required 30 credits.

2. Japanese majors wishing to use this course for the research requirement must notify the instructor that they will complete an independent research project.

3. At least one course must be taken outside the Japan curricular area.

4. Up to 12 credits from study abroad programs will be accepted for the major. Any language credits acquired from study abroad must not duplicate language credits acquired from classes taken at UWM.

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 482</td>
<td>Topics in Non-Western Art: (Japanese Architecture)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (Japanese Cinema)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 394</td>
<td>History of Japan to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 110</td>
<td>Japanese Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 200</td>
<td>Japanese Culture and Its Effect on Language</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 220</td>
<td>Introduction to Japanese Food Studies</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 297</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>JAPAN 310</td>
<td>Enhanced Knowledge &amp; Skills for the Japanese Language Proficiency Test</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 321</td>
<td>Analyzing Hollywood-Japan Film Remakes</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 330</td>
<td>Japanese Language and Culture (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 331</td>
<td>Reading Japanese Short Stories (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 361</td>
<td>Translating Japanese Media (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 397</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>JAPAN 416</td>
<td>Introduction to Translation: Japanese to English</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 441</td>
<td>Business Japanese I (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 489</td>
<td>Internship in Japanese, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td>JAPAN 497</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
</tbody>
</table>

Remakes
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Assistant Professor Aragorn Quinn, quinna@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/japanese/undergraduate

German Studies, Undergraduate Certificate

The German Studies Certificate Program is designed to offer UWM students the opportunity to experience firsthand contemporary German life and culture by integrating a semester of study at the Justus Liebig Universität in Giessen with their coursework at UWM. This certificate program is unique in its requirement of a semester study abroad. While at Justus Liebig Universität, students take a sequence of courses that deal with the history and culture of Germany, completing 15 of the 27 credits required by the certificate program. Upon completion of the requirements, students are awarded a certificate, which evidences a concentration in coursework related to the culture, civilization, and language of Germany. The courses taken in Giessen provide the student with a broad exposure to social and cultural issues in German life and society. The program will be of particular interest to students who major in German, music, art, art history, literature, history, international studies, political science, and business.

Prior to the required semester abroad, students must have sophomore standing and demonstrate intermediate proficiency in German (as described in the ACTFL Provisional Proficiency Guidelines) by a written and oral test or by transcript evidence of successful completion of fourth-semester German at UWM. During their semester of study in Giessen,

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major
Japanese majors who meet the following requirements may apply to the undergraduate advisor to graduate with "Honors in the Major".

1. Maintain a 3.000 cumulative GPA on all UWM credits attempted;
2. Maintain a 3.500 GPA on all credits that count toward the major, and
3. Maintain a 3.500 GPA on all advanced credits that count toward the major.
4. Complete a research project in consultation with the major advisor. The project also serves to fulfill the L&S Research Requirement for the Japanese Major.

1 No more than 3 credits of JAPAN 310 may count towards the total elective credits.
students pay UWM tuition and earn UWM credits. Their programs of study are overseen by a select group of faculty members of the Justus Liebig Universität.

**Requirements**

To earn the certificate, students must complete satisfactorily a minimum of 27 credits in courses beyond prerequisite language courses with an average grade of B or better. Students propose their individual programs of study from the list of required and elective courses and submit their proposals to the German Studies Certificate Committee for approval.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Core Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GERMAN 111</td>
<td>German Life and Civilization: Part I</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 112</td>
<td>German Life and Civilization: Part II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select a minimum of six credits:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHIST 366</td>
<td>German Painting, 1800-1933</td>
<td></td>
</tr>
<tr>
<td>GERMAN 360</td>
<td>German for the Global World</td>
<td></td>
</tr>
<tr>
<td>GERMAN 410</td>
<td>German Cultural History</td>
<td></td>
</tr>
<tr>
<td>GERMAN 415</td>
<td>Topics in German Civilization:</td>
<td></td>
</tr>
<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
<td></td>
</tr>
<tr>
<td>PHILOS 433</td>
<td>Nineteenth-Century Philosophers</td>
<td></td>
</tr>
<tr>
<td>POL SCI 333</td>
<td>Seminar in Comparative Politics:</td>
<td></td>
</tr>
<tr>
<td>POL SCI 334</td>
<td>German Politics and the New Europe</td>
<td></td>
</tr>
<tr>
<td><strong>Courses at the Justus Liebig Universität</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intensive German Workshop</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>During the JLU Sommersemester, students register for JLU courses in the following areas to earn a total of 9-12 UWM credits:</td>
<td>9-12</td>
<td></td>
</tr>
<tr>
<td>a) German art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) German literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) German history</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) German politics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e) German society and social organizations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f) German geography</td>
<td></td>
<td></td>
</tr>
<tr>
<td>During their period of study in Giessen, students may earn 3 of the required 15 credits in an independent study project involving a substantial written report specifically designed to relate the Giessen studies to the student’s academic major at UWM.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>27-30</td>
<td></td>
</tr>
</tbody>
</table>

1 At least two courses must be completed from a list of approved electives. The list is updated periodically by the German Studies Certificate Committee. Courses from this list may be taken before or after the semester in Giessen.

2 Student study plans during the semester in Giessen require the approval of the German Studies Certificate Committee.

**Contact Information**

Current Students contact Jonathan Wipplinger, Associate Professor of German, Coordinator, CRT 896, (414) 229-4547, wippling@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/foreign-languages-literature/undergraduate/

**German, BA**

German is the third most studied foreign language in the world, and, at UWM, we offer more than just instruction in language. In addition to German fluency, students learn how to apply that fluency by studying German culture, literature, customs, and history.

Wisconsin has a strong German heritage and many students find it both professionally useful and personally satisfying to explore the State’s German influences. Many may come into college having already taken German in high school. Students can take a placement test to determine their starting course and may be able to earn retroactive credits if they place above the level of GERMAN 101.

Fluency in German can provide a career advantage in all types of industries where Germany and other German-speaking countries are leaders: finance, marketing, manufacturing, politics, government work, electronics and technology, chemical and biochemical, environmental science, and architecture. At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of German in order to successfully apply their fluency.

Students are encouraged to participate in UWM’s well-established study abroad (http://uwm.edu/cie/study-abroad) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

http://uwm.edu/foreign-languages-literature/undergraduate/
ENGLISH 102 College Writing and Research (or equivalent)

Part B
Course designated as OWC-B; may be completed through a major-specific course requirement

Quantitative Literacy

Part A
Select one of the following:

- MATH 103 Contemporary Applications of Mathematics
- MATH 105 Introduction to College Algebra
- MATH 108 Algebraic Literacy II

Or equivalent course

Part B
Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
</tbody>
</table>
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

**V. Breadth Requirement**

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Major Requirements**

All majors are required to take an advanced language proficiency exam, normally during the semester in which they complete 18 credits in the major. The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

Majors must register with the program at the beginning of their candidacy.

The major requires a minimum of 30 credits in courses numbered 300 or above, at least 18 of them taken in residence at UWM. No more than 9 credits per semester will be accepted from study abroad.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select four additional courses at the 300 to 500 level (that are taught in German)</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select two courses at the 600 level</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td></td>
<td>At least 6 additional credits in related courses outside the program (as recommended by advisor) are strongly encouraged</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

33

**Research Experience**

The College of Letters & Science requires students to complete a research experience in their major. Students fulfill this requirement in the context of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td></td>
<td>At least 6 additional credits in related courses outside the program (as recommended by advisor) are strongly encouraged</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

33

**Research Experience**

The College of Letters and Science requires students to complete a research experience in their major. Students fulfill this requirement in the context of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td></td>
<td>At least 6 additional credits in related courses outside the program (as recommended by advisor) are strongly encouraged</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

33
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Associate Professor Jonathan Wipplinger, wippling@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/german/undergraduate/

German, Minor

German is the third most studied foreign language in the world, and, at UWM, we offer more than just instruction in language. In addition to German fluency, students learn how to apply that fluency by studying German culture, literature, customs, and history.

Wisconsin has a strong German heritage and many students find it both professionally useful and personally satisfying to explore the State’s German influences. Many may come into college having already taken German in high school. Students can take a placement test to determine their starting course and may be able to earn retroactive credits if they place above the level of GERMAN 101.

Fluency in German can provide a career advantage in all types of industries where Germany and other German-speaking countries are leaders: finance, marketing, manufacturing, politics, government work, electronics and technology, chemical and biochemical, environmental science, and architecture. At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of German in order to successfully apply their fluency.

Students are encouraged to participate in UWM’s well-established study abroad (http://uwm.edu/cie/study-abroad) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements

The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. The minor in German requires a minimum of 21 credits in courses numbered 300 or above, at least 9 of them taken in residence at UWM.
Japanese, Minor

As one of the five largest world economies, professional opportunities exist for individuals who are proficient in the Japanese language and who can understand and integrate into Japanese culture.

A minor in Japanese can part of the first step towards a career path in teaching, translation, interpretation, government relations, social services, the travel or hospitality industry, business, technology, finance or sales. Many students are also interested in careers related to Anime or computer technology, both large industries in Japan. A Committee Interdisciplinary Major with a focus in Japanese Language and Culture, combined with technology and science training, is excellent preparation for entry into those fields.

Many students now can find Japanese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Japanese language instruction. We offer eight semesters of Japanese language plus the vitally important courses about Japanese culture, business practices, values, politics, history, and religions.

While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful students of Japanese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

Japan is a very popular destination for study abroad (http://uwm.edu/cie/study-abroad), and Japanese majors are encouraged to take advantage of the opportunities available through UWM. Programs vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements

A minimum of 9 credits must be taken at the 300 level or above. A minimum of 9 credits must be taken in residence at UWM. Students entering with no previous Japanese language experience should enroll in JAPAN 101. Students entering with previous knowledge of, or high school preparation in, Japanese, or transfer students who have studied Japanese in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Japanese program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits earned at the 200 level or above to a maximum of 16 credits, for the courses leading to the one into which they are placed. The College requires that students attain at least a 2.500 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Those who are able to begin their study of Japanese beyond the third-semester level will take additional elective credits, approved by the Japanese language coordinator, to complete at least 18 credits in the minor. Students must complete a minimum of 12 credits in language courses. The following (or equivalent or exemption) are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAPAN 101</td>
<td>Third-Semester Japanese</td>
<td>5</td>
</tr>
<tr>
<td>JAPAN 202</td>
<td>Fourth-Semester Japanese</td>
<td>5</td>
</tr>
<tr>
<td>JAPAN 301</td>
<td>Fifth Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>JAPAN 302</td>
<td>Sixth Semester Japanese</td>
<td>4</td>
</tr>
<tr>
<td>Select at least 3 credits from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses in Japanese above 102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (Japanese subtitle)</td>
<td></td>
</tr>
<tr>
<td>HIST 394</td>
<td>History of Japan to 1600</td>
<td></td>
</tr>
<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Japanese Studies, BA

Jewish Studies majors at UWM examine the culture and religion of the Jewish people through language, history, arts, media, politics, and literature. Students can shape their own degree by focusing their electives around their specific interests, such as Israel, the Holocaust, or media representation.

A major in Jewish Studies prepares students for work in a multicultural world with a skill set that includes the ability to analyze texts and weigh different interpretations, present persuasive arguments in writing and speech, and appreciate different backgrounds and viewpoints. Jewish Studies alumni have found careers in social welfare, Jewish organization administration, foreign affairs, business administration, journalism, the arts, education, and more. Further graduate study has led others to careers in religious leadership as rabbis or cantors.

UWM students can choose a Hebrew Studies track within the major which has a focus on the foundations of Judaism, including extensive study of the Hebrew language. Or, students can opt for the Jewish

Contact Information

Current Students contact Assistant Professor Aragorn Quinn, quinna@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/japanese/undergraduate/
Studies track with an emphasis on modern Jewish history, literature, film and politics.

Jewish Studies majors and minors can further their education by participating in UWM’s Study Abroad opportunities in Israel. Majors and minors studying in Israel are eligible for travel awards from the Stahl Center for Jewish Studies. The Stahl Center for Jewish Studies also offers other scholarships and awards to outstanding Jewish Studies majors and minors.

The major can be completed fully online for students who need coursework that fits their schedules.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td></td>
</tr>
<tr>
<td></td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credits (at least two courses including one lab)          | 6 |

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 200</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 258</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 275</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete one of the following:

- 3 or more credits in any 200-level or above Math course
- AFRICOL 220 Introduction to Statistics in Africology
- ANTHRO 568 Introduction to Anthropological Statistics
- ATM SCI 500 Statistical Methods in Atmospheric Sciences
- BIO SCI 465 Biostatistics
- ECON 210 Economic Statistics
- GEOG 247 Quantitative Analysis in Geography
requirement.

Diversity (CD/) designation, L&S students must complete the Breadth (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD) designation. Complete 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/) designation, L&S students must complete the Breadth requirement.

Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.

Social Sciences
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

Natural Sciences
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation.

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JEWISH/HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
</tr>
</tbody>
</table>

VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Major Requirements

All majors in Jewish Studies are required to register with the program at the beginning of their candidacy and are encouraged to speak to the program coordinator as early as possible to plan a course of study.

Jewish Studies majors in both tracks must complete a minimum of 15 advanced-level (numbered 300 and above) credits in L&S courses taken in residence at UWM. A GPA of 2.500 is required in courses taken for the major at UWM and in all courses that count for the major, including transfer work. All majors in Jewish Studies must complete a minimum of 30 credits in the major.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBR ST 100</td>
<td>Introduction to Judaism</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
</tr>
</tbody>
</table>
Research Requirement (All research courses and projects must be approved by the coordinator)
Select one of the following:
- JEWISH 699: Advanced Independent Study
- HEBR ST 699: Independent Study
- One of the 300 level or above courses listed below

Major Tracks
Select one of the following:
- Hebrew Studies Track
- Jewish Cultural Studies Track

Total Credits 30-32

Major Tracks
Students must select one of the following two tracks:

Hebrew Studies Track
Hebrew language courses: Students are required to complete HEBR ST 201 and HEBR ST 202 to order to graduate in this track. HEBR ST 101 and HEBR ST 102 count toward the 100-200 level course requirement below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBR ST 201 &amp; HEBR ST 202</td>
<td>Third-Semester Hebrew and Fourth-Semester Hebrew (or equivalent)</td>
<td>8</td>
</tr>
</tbody>
</table>

Select 6 credits of 100 or 200 level courses from the following: 6

- JEWISH 101: Jewish Culture in America: History, Literature, Film
- HEBR ST 100: Introduction to Judaism (recommended)
- HEBR ST 101: First Semester Hebrew
- HEBR ST 102: Second Semester Hebrew
- HEBR ST 230: Bible Stories
- HEBR ST 231: Introduction to the Old Testament/Hebrew Bible
- HEBR ST 235: The Dead Sea Scrolls and the Bible
- HEBR ST 238: Topics in Hebrew/Jewish Literature, Art, and Culture:
- JEWISH/HEBR ST 261: Representing the Holocaust in Words and Images
- HEBR ST 254: Studies in Hebrew Culture:
- HIST 282: The Modern Middle East in the Nineteenth and Twentieth Centuries

Select 12 credits of 300 level or above courses from the following: 12

- HEBR ST 331: Topics in Biblical Literature:
- HEBR ST 332: Women in the Bible
- JEWISH/POL SCI 328: The Arab-Israeli Conflict
- JEWISH/HIST 358: The Jews of Modern Europe: History and Culture
- JEWISH/HIST 379: Introduction to Jewish History
- HIST 282: The Modern Middle East in the Nineteenth and Twentieth Centuries
- JEWISH/HIST 358: The Jews of Modern Europe: History and Culture
- JEWISH/FILMSTD 350: Global Jewish Film and Television:
- JEWISH/HIST 368: Jewish and Christian Responses to the Holocaust
- HIST 363: Germany: Hitler and the Nazi Dictatorship

Jewish Cultural Studies Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBR ST 101</td>
<td>First Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 102</td>
<td>Second Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 201</td>
<td>Third-Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 202</td>
<td>Fourth-Semester Hebrew</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 230</td>
<td>Bible Stories</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 231</td>
<td>Introduction to the Old Testament/Hebrew Bible</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 238</td>
<td>Topics in Hebrew/Jewish Literature, Art, and Culture:</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td></td>
</tr>
</tbody>
</table>

Select 9 credits of 100 or 200 level courses from the following: 9

- JEWISH 101: Jewish Culture in America: History, Literature, Film
- HEBR ST 100: Introduction to Judaism (recommended)
- HEBR ST 101: First Semester Hebrew
- HEBR ST 102: Second Semester Hebrew
- HEBR ST 230: Bible Stories
- HEBR ST 231: Introduction to the Old Testament/Hebrew Bible
- HEBR ST 235: The Dead Sea Scrolls and the Bible
- HEBR ST 238: Topics in Hebrew/Jewish Literature, Art, and Culture:
- JEWISH/HEBR ST 261: Representing the Holocaust in Words and Images

Select 15 credits of 300 level or above courses from the following: 15

- HEBR ST 331: Topics in Biblical Literature:
- HEBR ST 332: Women in the Bible
- JEWISH/POL SCI 328: The Arab-Israeli Conflict
- JEWISH/HIST 358: The Jews of Modern Europe: History and Culture
- JEWISH/HIST 379: Introduction to Jewish History
- JEWISH/HIST 368: Jewish and Christian Responses to the Holocaust
- HIST 363: Germany: Hitler and the Nazi Dictatorship
- HIST 364: The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45
- HIST 364: The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45
- POL SCI 371: Nationalism and Ethnic Conflict
- JEWISH 699: Advanced Independent Study
- HEBR ST 699: Independent Study

Total Credits 26

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program
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Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the College of Letters and Science**

**Dean's Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact Senior Lecturer Rachel Baum, rbaum@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at 36x53 (414) 229-7711 or let-sci@uwm.edu

https://www4.uwm.edu/jewishstudies major.cfm

**Jewish Studies, Minor**

Jewish Studies minors at UWM examine the culture and religion of the Jewish people through language, history, arts, media, politics, and literature. Students can shape their own degree by focusing their electives around their specific interests, such as Israel, the Holocaust, or media representation.

The Jewish Studies program prepares students for work in a multicultural world with a skill set that includes the ability to analyze texts and weigh different interpretations, present persuasive arguments in writing and speech, and appreciate different backgrounds and viewpoints. Jewish Studies alumni have found careers in social welfare, Jewish organization administration, foreign affairs, business administration, journalism, the arts, education, and more. Further graduate study has led others to careers in religious leadership as rabbis or cantors.

Jewish Studies minors can further their education by participating in UWM’s Study Abroad opportunities in Israel. Majors and minors studying in Israel are eligible for travel awards from the Stahl Center for Jewish Studies. The Stahl Center for Jewish Studies also offers other scholarships and awards to outstanding Jewish Studies majors and minors.

Both the major and minor can be completed fully online for students who need coursework that fits their schedules.

**Requirements**

The minor requires completion of a minimum of 18 credits, at least 9 of which must be taken at the 300 level or above in residence at UWM. The College requires that students earn a GPA of at least 2.500 on all credits for the minor attempted at UWM. In addition, students must earn a GPA of 2.500 on all minor credits attempted, including any transfer work.

Students can attain a minor in Jewish Studies by following one of two tracks:

**Hebrew Studies Track**

The Hebrew Studies track of the Jewish Studies minor requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select two semesters of Hebrew language courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 12 credits from the following: ^2</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>FILMSTD/JEWISH 350</td>
<td>Global Jewish Film and Television:</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 100</td>
<td>Introduction to Judaism</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 192</td>
<td>First-Year Seminar (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 199</td>
<td>Independent Study (as approved by program coordinator)</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 230</td>
<td>Bible Stories</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 231</td>
<td>Introduction to the Old Testament/Hebrew Bible</td>
<td></td>
</tr>
<tr>
<td>HEBR ST 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
<td></td>
</tr>
</tbody>
</table>

^2 Students can choose any 12 credits from the following courses: HEBR ST 100, HEBR ST 192, HEBR ST 199, HEBR ST 230, HEBR ST 231, HEBR ST 235.
### Jewish Studies, Minor

#### Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST/JEWISH 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILMSTD/JEWISH 350</td>
<td>Global Jewish Film and Television</td>
<td>3</td>
</tr>
<tr>
<td>HEBR ST/JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3</td>
</tr>
<tr>
<td>HEBR ST/JEWISH 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 101</td>
<td>Jewish Culture in America: History, Literature, Film</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 192</td>
<td>First-Year Seminar: History, Literature, Film</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 199</td>
<td>Independent Study (as approved by program coordinator)</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 247</td>
<td>Topics in Jewish Literature, Art, and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

### Jewish Cultural Studies Track

The Jewish cultural studies track of the Jewish Studies minor requires 18 credits, including 9 credits at the advanced level (300 and above) taken in residence at UWM, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST/JEWISH 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST/JEWISH 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HIST 379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
</tr>
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</table>

#### Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILMSTD/JEWISH 350</td>
<td>Global Jewish Film and Television</td>
<td>3</td>
</tr>
<tr>
<td>HEBR ST/JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3</td>
</tr>
<tr>
<td>HEBR ST/JEWISH 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 101</td>
<td>Jewish Culture in America: History, Literature, Film</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 247</td>
<td>Topics in Jewish Literature, Art, and Culture</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td></td>
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<tr>
<td>-----------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td></td>
</tr>
<tr>
<td>POL SCI/JEWISH 328</td>
<td>The Arab-Israeli Conflict</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 100</td>
<td>Introduction to Judaism</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 192</td>
<td>First-Year Seminar (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 199</td>
<td>Independent Study (as approved by program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 230</td>
<td>Bible Stories</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 231</td>
<td>Introduction to the Old Testament/Hebrew Bible</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 238</td>
<td>Topics in Hebrew/Jewish Literature, Art, and Culture:</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 247</td>
<td>The Holocaust and the Politics of Memory</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 254</td>
<td>Studies in Hebrew Culture:</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST/JEWISH 261</td>
<td>Representing the Holocaust in Words and Images (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 297</td>
<td>Study Abroad: (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 299</td>
<td>Ad Hoc:</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 321</td>
<td>Jewish and Christian Responses to the Holocaust (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 397</td>
<td>Study Abroad: (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 497</td>
<td>Study Abroad: (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 499</td>
<td>Ad Hoc:</td>
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<tr>
<td>JEWISH/HEBR ST 597</td>
<td>Study Abroad: (with appropriate subtitle, contact program coordinator)</td>
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<tr>
<td>JEWISH/HEBR ST 697</td>
<td>Study Abroad: (with appropriate subtitle, contact program coordinator)</td>
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<tr>
<td>JEWISH/HEBR ST 699</td>
<td>Independent Study (as approved by program coordinator)</td>
<td></td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td></td>
</tr>
<tr>
<td>HIST/JEWISH 358</td>
<td>The Jews of Modern Europe: History and Culture (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
<td></td>
</tr>
<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
<td></td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought: (with appropriate subtitle, contact program coordinator)</td>
<td></td>
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<tr>
<td>HIST 401</td>
<td>Topics in Middle Eastern History: (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 101</td>
<td>Jewish Culture in America: History, Literature, Film (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 192</td>
<td>First-Year Seminar: (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 193</td>
<td>First-Year Seminar: (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 199</td>
<td>Independent Study (as approved by program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 247</td>
<td>Topics in Jewish Literature, Art, and Culture:</td>
<td></td>
</tr>
<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 297</td>
<td>Study Abroad: (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 299</td>
<td>Ad Hoc:</td>
<td></td>
</tr>
<tr>
<td>JEWISH 321</td>
<td>The Holocaust and the Politics of Memory</td>
<td></td>
</tr>
<tr>
<td>JEWISH/POL SCI 328</td>
<td>The Arab-Israeli Conflict (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/FILMSTD 350</td>
<td>Global Jewish Film and Television: (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HIST 358</td>
<td>The Jews of Modern Europe: History and Culture (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>JEWISH/HEBR ST 368</td>
<td>Jewish and Christian Responses to the Holocaust (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 449</td>
<td>Modern Jewish Thought</td>
<td></td>
</tr>
<tr>
<td>JEWISH 497</td>
<td>Study Abroad: (with appropriate subtitle, contact program coordinator)</td>
<td></td>
</tr>
<tr>
<td>JEWISH 499</td>
<td>Ad Hoc:</td>
<td></td>
</tr>
<tr>
<td>JEWISH 500</td>
<td>Seminar in Jewish Studies:</td>
<td></td>
</tr>
<tr>
<td>JEWISH 699</td>
<td>Advanced Independent Study (as approved by program coordinator)</td>
<td></td>
</tr>
<tr>
<td>POL SCI/JEWISH 328</td>
<td>The Arab-Israeli Conflict (if not selected above)</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

**Contact Information**

Current Students contact Senior Lecturer Rachel Baum, rbaum@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
https://www4.uwm.edu/jewishstudies/minor.cfm

**Russian and East European Studies, Undergraduate Certificate**

The purpose of the Russian and East European Studies undergraduate certificate is to enable students to take a coordinated series of courses and to receive a formal certificate signifying this specialization.

In recent years, Russia has become an even larger global influence on politics, the economy, security, and international trade. Understanding the
language and culture of Russia has become increasingly important, and the value of knowledge and skills in this area is anticipated to continue to grow.

Only about 15% of the colleges and universities in the U.S. are able to offer a Russian major, and UWM is among this small group. This Slavic language is growing in importance and in value as the political and economic dynamics of Russia and the region are evolving. Russian is one of the five official languages of the United Nations and has more than 200 million speakers around the world. The U.S. State Department has deemed Russian to be a “critical language” and has many programs to encourage students to join this needed area of study.

At UWM, students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of Russian in order to successfully apply their fluency. Students are also encouraged to participate in UWM’s study abroad program with destinations including Saratov, Moscow, St. Petersburg, and Vladimir. Some students choose just a short immersion while others go abroad for a semester or even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility
The Russian and East European Studies Certificate Program is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

Requirements
To obtain the certificate, students must complete at least 18 credits including the requirements in either of the following two tracks. In both tracks, students must achieve a minimum grade point average of 2.75 in all courses taken for the certificate, including language courses. Students should be aware that not all certificate courses are taught regularly. They are advised, therefore, to plan ahead in choosing courses needed for the certificate. A maximum of 3 credits in advanced independent study courses (699) may be applied toward completion of certificate requirements. Other appropriate courses taught by the area faculty, but not on the list, may be taken with the approval of the Chair of the Russian and East European Studies Committee. For courses to count towards the REES certificate, at least one third of the content must be related to the regions of Eastern and Central Europe, Russia, Eurasia, and/or Central Asia. For pre-approved courses, see the list of approved courses. When necessary, requests for other substitute courses will be considered by the committee, provided they are made well in advance of graduation.

Track One (with language study)
1. 9 credits in approved upper division courses in area history, political science, area studies, and foreign languages and literature, or substitutes as approved by the Committee.

2. Demonstrated proficiency in one of the languages of the region: four semesters of language study or its equivalent. Students with language proficiency gained in contexts other than classroom instruction should consult the REES advisor about proficiency testing options.

Track Two
1. 18 credits from the approved list of courses in area history, political science, area studies, and foreign languages and literature, or substitutes approved by the Committee. At least 9 credits must be upper division.

At least 9 credits must be completed successfully at UWM for both tracks.

Exit Survey
Students in both tracks are required to complete an exit survey upon completion of their required coursework. The assessment process allows certificate students to reflect on their experiences while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

Please note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

Courses Approved for the Certificate Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies: (Ethnic Processes and Nationalism – Russia and the Former USSR subtitle and other appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td>3</td>
</tr>
<tr>
<td>HIST 239</td>
<td>Poland and its Neighbors, 1795-1914</td>
<td>3</td>
</tr>
<tr>
<td>HIST 248</td>
<td>The First World War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 249</td>
<td>The Second World War in Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 295</td>
<td>Historical Encounters: (with Russian and/or East European subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 341</td>
<td>Imperial Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 343</td>
<td>Russia Since 1917</td>
<td>3</td>
</tr>
<tr>
<td>HIST 346</td>
<td>Poland and Its Neighbors, 1914-1945</td>
<td>3</td>
</tr>
<tr>
<td>HIST 348</td>
<td>Poland and Its Neighbors, 1945 to the Present</td>
<td>3</td>
</tr>
</tbody>
</table>
Russian, BA

In recent years, Russia has become an even larger global influence on politics, the economy, security, and international trade. Understanding the language and culture of Russia has become increasingly important, and the value of knowledge and skills in this area is anticipated to continue to grow.

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Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact Associate Professor Joseph Peschio, peschio@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Russian+%26+East+European+Studies
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits

**Humanities**

Select 6 credits

**Social Sciences**

Select 6 credits

**Natural Sciences**

Select 6 credits (at least two courses including one lab)

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

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**College of Letters & Science Requirements**

**I. English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.*

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOF 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.*

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work. Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following:</td>
<td>0-18</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (p. 1169) for course options.
Diversity (CD/+) designation, L&S students must complete the Breadth Requirement:

- Complete 3 credits in a course with Cultural Diversity (CD) designation.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

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**Major Requirements**

Majors must complete at least 15 credits in advanced-level courses (300 and above) in residence at UWM; at least 9 of these credits must be in the Russian curricular area. Students must attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, the College of Letters and Science requires that students attain a 2.500 GPA on all major credits attempted, including any transfer work. Major courses taken outside the Russian curricular area count in the major GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive study abroad should contact the program coordinator to discuss the college’s residency requirement.

The Russian major requires completion of four semesters of college-level Russian (through RUSSIAN 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the minor GPA. In addition, individuals must complete 18 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSSIAN 310</td>
<td>Advanced Russian Reading and Conversation:</td>
<td>3</td>
</tr>
<tr>
<td>RUSSIAN 311</td>
<td>Contemporary Russian Language:</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional credits in Russian</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>

1. Selected from Russian and/or cross-listed and related courses (see the two lists below). A maximum of 3 credits from the list of related courses can count toward this requirement.

2. As part of their required credits, all students must complete a research experience as required by the College. Students will satisfy this requirement in the context of RUSSIAN 391 or RUSSIAN 699.

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**Cross-listed Courses**

The following courses are approved to satisfy the requirements of the Russian major and minor. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (Russian Cinema)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies: (Gender and Ethnicity in and After the USSR)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 341</td>
<td>Imperial Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 343</td>
<td>Russia Since 1917</td>
<td>3</td>
</tr>
<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (Russia in Transition: Media and Values)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 310</td>
<td>Russian and Post-Soviet Politics</td>
<td>3</td>
</tr>
</tbody>
</table>
Related Courses

The following courses are approved to satisfy the requirements of the Russian major. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list. Majors may count a maximum of three credits from the following list toward the major requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 249</td>
<td>The Second World War in Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 375</td>
<td>Contemporary European History, 1945 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 302</td>
<td>Politics of Eastern Europe</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Students may enroll in and complete all advanced-level courses with the subject code LINGUIS and all courses under the subject code POLISH.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List

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

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Associate Professor Joseph Peschio, peschio@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/foreign-languages-literature/undergraduate/russian/

Russian, Minor

In recent years, Russia has become an even larger global influence on politics, the economy, security, and international trade. Understanding the language and culture of Russia has become increasingly important, and the value of knowledge and skills in this area is anticipated to continue to grow.

Only about 15% of the colleges and universities in the U.S. are able to offer a Russian major, and UWM is among this small group. This Slavic language is growing in importance and in value as the political and economic dynamics of Russia and the region are evolving. Russian is one of the five official languages of the United Nations and has more than 200 million speakers around the world. The U.S. State Department has deemed Russian to be a “critical language” and has many programs to encourage students to join this needed area of study.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of Russian in order to successfully apply their fluency.

Students are also encouraged to participate in UWM’s study abroad (https://uwm.edu/cie/study-abroad) program with destinations including Saratov, Moscow, St. Petersburg, and Vladimir. Some students choose just a short immersion while others go abroad for a semester or even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.
Requirements

At least 9 credits must be completed in advanced-level courses in residence at UWM; at least 6 of these credits must be in the Russian curricular area. Students must attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, the College requires that students attain a 2.500 GPA on all minor credits attempted, including transfer work. Minor courses taken outside the Russian curricular area count in the minor GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive advanced-level coursework at a Russian university should contact the program coordinator to discuss the College’s residency requirement.

The Russian minor requires completion of four semesters of college-level Russian (through RUSSIAN 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the minor GPA. In addition, minors must complete 18 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSSIAN 310</td>
<td>Advanced Russian Reading and Conversation:</td>
<td>3</td>
</tr>
<tr>
<td>RUSSIAN 311</td>
<td>Contemporary Russian Language:</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 additional credits in the Russian curricular area</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select 6 credits in Russian and/or courses selected from the list of cross-listed courses below

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 6 of cross-listed courses below</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Cross-listed Courses

The following courses are approved to satisfy the requirements of the Russian minor. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (Russian Cinema)</td>
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<td>Selected Topics in Ethnic Studies: (Gender and Ethnicity in and After the USSR)</td>
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<td>3</td>
</tr>
<tr>
<td>POL SCI 310</td>
<td>Russian and Post-Soviet Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact Associate Professor Joseph Peschio, peschio@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

Scandinavian Studies, Undergraduate Certificate

The Undergraduate Certificate in Scandinavian Studies provides students with a thorough understanding of the language, culture, history, and literature of the Nordic nations including Denmark, Finland, Iceland, Norway, and Sweden. The Nordic region is known for its innovative approaches to democracy, literature, and the arts, as well as its history surrounding colonialism, migration, and globalization. This certificate may be of particular interest to students who plan to enter government service, tourism and hospitality, or global business, and complements many different majors including history, political science, international studies, economics, geography, foreign languages and anthropology. Students interested in a career that works with the Scandinavian population or with a corporation with Scandinavian operations may find this certificate particularly valuable.

Study abroad (http://uwm.edu/cie/study-abroad) is not required, but many students find that an overseas experience is life-changing and an exceptional complement to their studies in the US.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Scandinavian Studies Undergraduate Certificate Program is open to all students seeking a bachelor’s degree from UWM and to students who previously received a bachelor’s degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree receive the certificate upon completion of the program requirements.

Requirements

To complete the certificate, students must earn a minimum GPA of 3.000 in 18 credits of Scandinavian Studies courses, as listed below.

Scandinavian studies courses completed elsewhere, with the approval of the program coordinator, will be accepted in partial fulfillment of the requirements of the certificate. The majority of the certificate requirements may be completed at Mälardalen University, UWM’s sister university in Sweden. Students attending Mälardalen University pay UWM tuition and take courses on the Swedish language and Scandinavian culture. Students also may take courses in pursuit of their other academic interests, either in Swedish or in English.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCNDVST 101</td>
<td>First-Semester Swedish</td>
<td>6</td>
</tr>
<tr>
<td>SCNDVST 102</td>
<td>Second-Semester Swedish</td>
<td></td>
</tr>
<tr>
<td>SCNDVST 203</td>
<td>Third-Semester Swedish</td>
<td></td>
</tr>
<tr>
<td>SCNDVST 204</td>
<td>Fourth-Semester Swedish</td>
<td></td>
</tr>
</tbody>
</table>

Scandinavian Studies

Current Students contact Associate Professor Joseph Peschio, peschio@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/foreign-languages-literature/undergraduate/russian/
12 credits in elective courses are required, and may include additional language courses. Courses may also be selected from the approved list (below) or from other appropriate courses identified and approved by the program coordinator.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 115</td>
<td>Seminar on Scandinavian Culture:</td>
</tr>
<tr>
<td>GERMAN 699</td>
<td>Independent Reading (Hans Christian Andersen and/or Nineteenth Century Scandinavian Literature [Additional appropriate courses may be offered under this rubric])</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Topics in European History: (History of the Vikings)</td>
</tr>
<tr>
<td>PHILOS 433</td>
<td>Nineteenth-Century Philosophers</td>
</tr>
<tr>
<td>PHILOS 435</td>
<td>Existentialism</td>
</tr>
<tr>
<td>PHILOS 554</td>
<td>Special Topics in the History of Modern Philosophy: (with appropriate subtitle)</td>
</tr>
</tbody>
</table>

Total Credits: 18

**Contact Information**

Current Students contact Associate Professor Jonathan Wipplinger, wippling@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/scandinavian/
FRENCH, ITALIAN, AND COMPARATIVE LITERATURE

The study of languages has been the fundamental basis of liberal education since the Renaissance, and it is crucial to learning in the 21st century as technologies create global channels of communication. This department, therefore, is committed to promoting the study of at least one second language in order to enable students to participate in the world of international communities and, moreover, to appreciate and contribute to a broad spectrum of diverse cultures. The Department of French, Italian, and Comparative Literature offers a complete sequence of courses in two languages and in the literatures and cultures of the world.

The department follows the Credit for Demonstrated Equivalent Preparation policy.

Programs

- Business French, Minor (p. 1373)
- Comparative Literature, BA (p. 1374)
- Comparative Literature, Minor (p. 1378)
- French and Francophone Studies, Undergraduate Certificate (p. 1378)
- French, BA (p. 1380)
- French, Minor (p. 1383)
- Italian, BA (p. 1383)
- Italian, Minor (p. 1387)

Comparative Literature Courses

COMPLIT 133 Contemporary Imagination in Literature and the Arts
3 cr. Undergraduate.
Introduction to comparative literature, focusing on the study of world literatures and their relations to other arts, and to cultural and social currents.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPLIT 135 Experiencing Literature in the 21st Century:
3 cr. Undergraduate.
Critical study of literary forms (e.g. romance, comedy, short story) and their connections with other arts and media, such as cinema, TV, and music.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPLIT 192 First-Year Seminar.
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2015, Fall 2014, Fall 2012, Fall 2009.
Current Offerings: http://uwm.edu/schedule

COMPLIT 199 Independent Study
1-6 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 207 Global Literature from Antiquity to the 1600s:
3 cr. Undergraduate.
Literary analysis through a survey of world literature from antiquity through the 1600s.
Prerequisites: none.
Course Rules: May not be retaken for cr.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

COMPLIT 208 Global Literature from the 17th Century to the Present:
3 cr. Undergraduate.
Literary analysis through a survey of world literature from the 1600s to the present.
Prerequisites: none.
Course Rules: May not be retaken for cr.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

COMPLIT 230 Literature and Society:
3 cr. Undergraduate.
Relationships between literature and aspects of society, e.g., philosophical movements; history; gender, race, class, or sexuality.
Prerequisites: none. CompLit 133(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

COMPLIT 231 Literature and Religion:
3 cr. Undergraduate.
A close study of the interrelationship of literature and religion across a wide historical spectrum.
Prerequisites: none. CompLit 133(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2017, Fall 2016, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
COMPLIT 232 Literature and Politics:
3 cr. Undergraduate.
Multiple ways literature and politics shape and influence one another, with particular focus on links between literary and political representation.
Prerequisites: CompLit 133(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2013, Fall 2009, Spring 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

COMPLIT 233 Literature and Film:
3 cr. Undergraduate.
Themes, styles, and ideology in cinematic and literary texts.
Prerequisites: CompLit 133(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPLIT 289 Internship in Comparative Literature, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of comparative literature in a business, organizational, educational, political, or other appropriate settings.
Prerequisites: CompLit 100- or 200-level course; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 293 Literature and Science:
3 cr. Undergraduate.
Dehumanization of mankind by technology as theme for changing literature.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Spring 2009.
Current Offerings: http://uwm.edu/schedule

COMPLIT 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 1999.
Current Offerings: http://uwm.edu/schedule

COMPLIT 309 Great Works of Modern Literature:
3 cr. Undergraduate/Graduate.
Literature of the twentieth and twenty-first centuries, with emphasis on theme, movement, trend, genre, or mode.
Prerequisites: jr st; CompLit 207(R) or 208(R).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2017, Spring 2017, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

COMPLIT 316 World Cinema:
3 cr. Undergraduate.
National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms.
Prerequisites: jr. st or English 290(P); satisfaction of OWC-A.
Course Rules: Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

COMPLIT 320 Mediaeval Literature and Culture:
3 cr. Undergraduate/Graduate.
Major genres, themes, and figures of the Middle Ages through representative literary works, devotional writings, visual art, architecture, and other examples of cultural production.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2006, Fall 2005, Fall 2004, Fall 1998.
Current Offerings: http://uwm.edu/schedule

COMPLIT 321 Renaissance Literature and Culture:
3 cr. Undergraduate/Graduate.
Major genres, themes, figures, tenets, aspects, influences, and trends in Renaissance literature through representative literary works, visual art, architecture, and other examples of cultural production.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 340 Studies in Literary Genres and Modes:
3 cr. Undergraduate/Graduate.
Literary genres and modes from at least one international cultural context.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

COMPLIT 350 Topics in Comparative Literature:
3 cr. Undergraduate/Graduate.
One or more areas of comparative literature across periods, genres, or regions.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule
COMPLIT 360 Seminar in Literature and Cultural Experience:
3 cr. Undergraduate/Graduate.
How culture is expressed in literary works with specific emphasis on how
dominant and marginalized groups are represented in literature.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

COMPLIT 362 Transnational Asian Cinemas:
3 cr. Undergraduate/Graduate.
Critical study of the cinemas of Asia, their film masters, avant-garde
genres, and movements in relation to world cinema culture.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

COMPLIT 363 Chinese Literature in the Global Context:
3 cr. Undergraduate/Graduate.
Modern or contemporary Chinese literature; focus on a period, theme,
genre, or movement in relation to literary cultures of other countries and
regions or world events.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 365 Literatures and Cultures of the Americas:
3 cr. Undergraduate/Graduate.
Comparative study of the literatures and cultural expressions of three
or more national, ethnic, or linguistic traditions within North and South
America and the Caribbean.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 381 Honors Seminar:
3 cr. Undergraduate.
Critical study of a problem in comparative literary relations.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

COMPLIT 410 Classical Backgrounds of Modern Literature:
3 cr. Undergraduate/Graduate.
Influences of classical literature and art upon modern literature.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 457 Topics in French and Francophone Studies in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of important works on a topic,
genre, or historical period with particular emphasis on intellectual and
cultural context.
Prerequisites: jr st or cons instr.
Course Rules: CompLit 457 & French 457 are jointly offered; they count as
repeats of one another. May be retaken w/chg in topic to 9 cr. max.
Last Taught: Fall 2015, Fall 2009.
Current Offerings: http://uwm.edu/schedule

COMPLIT 461 Film-Fiction Interaction:
3 cr. Undergraduate/Graduate.
Growth and development of film in conjunction with literary devices
(narrative, setting, etc.), novels, plays, biographies, and poetry. Mutual
influences of literary and cinematic arts.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2015, Spring 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

COMPLIT 463 Literary Criticism: Major Authors
3 cr. Undergraduate/Graduate.
The development of critical theories from Plato to the present.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

COMPLIT 464 Seminar in Comparative Literary Criticism:
3 cr. Undergraduate/Graduate.
Principles and theories of literary criticism in a given period; major
approaches to literature.
Prerequisites: jr st, completion of OWC-A; or grad st.
Course Rules: May be retaken w/chgs in topic to 9 cr max.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

COMPLIT 489 Internship in Comparative Literature, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of comparative literature in a
business, organizational, educational, political, or other appropriate
setting.
Prerequisites: jr st; 300-level or above course in CompLit; 2.25 gpa; cons
supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in
internship. May be retaken to 6 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2008.
Current Offerings: http://uwm.edu/schedule

COMPLIT 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
COMPLIT 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

COMPLIT 533 Seminar in Trends in Modern Literature:
3 cr. Undergraduate/Graduate.
Development of important trends, ideas, and forms of world literature, and their contributions to cultural modernity.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a CompLit faculty or instructional academic staff member. For further information, consult CompLit prog coord.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

COMPLIT 704 Seminar in Cultural Studies:
3 cr. Graduate.
Investigation of cultural phenomena in their socio-historical contexts and in their symbolization in folklore, literature, and art. Specific topics and any additional prereqs announced in the Schedule of Classes each time course is offered.
Prerequisites: grad st.
Course Rules: CompLit 704 & MALLT 704 are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 707 Seminar in Methods of Literary Analysis:
3 cr. Graduate.
Two or more theoretical and methodological approaches to literature, with application to selected literary texts. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: grad st.
Course Rules: CompLit 707 & MALLT 707(701) are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

COMPLIT 789 Graduate Internship in Comparative Literature
1-31 cr. Graduate.
Application of advanced principles of comparative literature in a business, organizational, educational, political, cultural, or other appropriate setting. Retakable to 6 cr max.
Prerequisites: grad st; 3.0 GPA; cons supervising faculty member.
Current Offerings: http://uwm.edu/schedule

COMPLIT 820 Translation Theory
3 cr. Graduate.
The role of translation in the development of languages, cultures, and societies; cultural and ideological forces shaping translations; contemporary theories of translation.
Prerequisites: grad st.
Course Rules: CompLit 820 & Trnsltn 820 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

French Courses

FRENCH 103 First-Semester French
4 cr. Undergraduate.
For students who have not studied French previously. Oral practice, grammar, and reading. Language laboratory required.
Prerequisites: none.
Course Rules: Counts as repeat of French 113. Open only to students with 2 yrs HS French or less or score of 1 on the French placement exam.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRENCH 104 Second-Semester French
4 cr. Undergraduate.
Continuation of French 103. Further drill in the language laboratory.
Prerequisites: grade of C or better in French 103(P) or level 2 score on French placement exam or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Course Rules: Counts as repeat of French 114.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRENCH 110 French for Travelers
1-2 cr. Undergraduate.
Basic conversational French for travelers. For students with no knowledge of French as well as for those with a basic foundation in the language. Useful vocabulary and cultural information.
Prerequisites: none.
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

FRENCH 113 Intensive French I
4 cr. Undergraduate.
Compressed introductory course focused on speaking, oral comprehension, and reading. For students with some knowledge of French or another foreign language.
Prerequisites: none.
Course Rules: Counts as a repeat of French 103.
Current Offerings: http://uwm.edu/schedule

FRENCH 114 Intensive French II
4 cr. Undergraduate.
Continuation of French 113. Prepares students for placement into French 203.
Prerequisites: French 103(P), 113(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).
Course Rules: Counts as a repeat of French 104.
Current Offerings: http://uwm.edu/schedule
FRENCH 145 Views of France:
3 cr. Undergraduate.
In-depth study of selected aspects of French civilization as reflected in literature.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRENCH 190 Elementary French Electives
3-12 cr. Undergraduate.
Awarded by the program director for language work at the introductory (first-year) level completed in Paris.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule

FRENCH 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2009, Fall 2007, Fall 2001.
Current Offerings: http://uwm.edu/schedule

FRENCH 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

FRENCH 199 Independent Study
1-4 cr. Undergraduate.
For further information consult department chair.
Prerequisites: 2.5 GPA; cons instr, dept chair & asst dean for SAS.
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule

FRENCH 203 Third-Semester French
3 cr. Undergraduate.
Review and further study of language and culture with emphasis on the development of reading skills.
Prerequisites: grade of C or better in French 104(P) or 114(P) or level 3 score on French placement exam or cons instr. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRENCH 204 Fourth-Semester French
3 cr. Undergraduate.
Prerequisites: grade of C or better in French 203(P) or level 4 score on French placement exam or cons instr; French 213(R). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

FRENCH 205 Reading for Research
3 cr. Undergraduate.
Basic grammatical principles and linguistic structures, augmented by individually-supervised readings in the student’s field of specialization.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

FRENCH 210 French Immersion: Intermediate
1-2 cr. Undergraduate.
Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers, simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered.
Prerequisites: French 203(P) or cons instr.
Course Rules: May be retaken to 4 cr max.
Current Offerings: http://uwm.edu/schedule

FRENCH 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, and may be used to repeat, Classic 213, English 213, German 213, Italian 213, Linguistics 213, Polish 213, Russian 213, & Spanish 213.
Current Offerings: http://uwm.edu/schedule

FRENCH 217 French Discussion Section:
1-2 cr. Undergraduate.
Discussion in French, designed to broaden perspectives, improve language skills.
Prerequisites: French 204(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

FRENCH 277 French Discussion Section:
1-2 cr. Undergraduate.
Discussion in French, designed to broaden perspectives, improve language skills.
Prerequisites: French 204(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

FRENCH 289 Internship in French
1-6 cr. Undergraduate.
Application of basic principles of French in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: French 103(P) or 113(P); 2.25 gpa; cons instr.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule
FRENCH 290 Intermediate French Electives: 3-12 cr. Undergraduate.
Aimed by the program director for language work on the intermediate level completed at Paris.
**Prerequisites:** acceptance for Study Abroad Prog; conc reg in French 595(C).
**Course Rules:** Students initially enroll in French 595. May be retaken for cr.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 296 UROP Apprenticeship 1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
**Prerequisites:** acceptance into UROP; prior or conc reg in UROP seminar.
**Course Rules:** May be retaken to 9 cr max.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 297 Study Abroad: 1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
**Prerequisites:** acceptance for Study Abroad Prog; conc reg in French 595(C).
**Course Rules:** May be retaken w/chg topic.
**Last Taught:** Summer 2017, Spring 2017, Fall 2016, Summer 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 299 Ad Hoc: 1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.
**Prerequisites:** none; add'l prereqs may be assigned to specific topic.
**Course Rules:** May be retaken w/chg topic.
**Last Taught:** Spring 2002, Fall 1999, Fall 1998, Fall 1997.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 303 Conversation and Composition: Intermediate Level 3 cr. Undergraduate.
Development of ability to understand, read, speak and write French, with emphasis on everyday language and culture.
**Prerequisites:** grade C or better in French 204(P) or level 5 score on French placement exam or cons instr; may be taken conc w/French 204 w/grade B or better in French 203(P). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
**General Education Requirements:** HU
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 310 Contemporary French Usage 1-2 cr. Undergraduate.
Review of French grammar; practice in conversation and composition with emphasis on current practice. Reading materials will stress contemporary French life and politics.
**Prerequisites:** French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

Introduction to business language and practices in French-speaking countries. Commercial vocabulary, oral and written communication skills, use of French internet resources.
**Prerequisites:** French 303(215)(P) or cons instr.
**Last Taught:** Fall 2014, Spring 2012, Spring 2010, Spring 2008.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 324 Contemporary French Language and Culture 3 cr. Undergraduate.
Introduction to contemporary French culture through the use of authentic materials (video, oral interviews, literary and journalistic writing).
**Prerequisites:** French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
**General Education Requirements:** HU
**Last Taught:** Spring 2018, Spring 2017, Fall 2016, Spring 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 325 Intensive Grammar and Usage 3 cr. Undergraduate.
Grammatical structures; levels of styles; written accuracy and proficiency.
**Prerequisites:** French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 329 Studies in French Culture: 2-4 cr. Undergraduate.
A specific aspect of French culture combining class lectures and on-site visits.
**Prerequisites:** French 303(215)(P) or cons instr; French 324(R) & 325(R).
**General Education Requirements:** HU
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 332 Reading French Texts 3 cr. Undergraduate.
Rules and concepts involved in reading and understanding poetry and prose. Practice in developing skills by literary analysis.
**Prerequisites:** French 303(P) or cons instr; French 324(R) & 325(R).
**General Education Requirements:** HU
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

FRENCH 349 Studies in French Culture: 2-4 cr. Undergraduate.
* A specific aspect of French culture combining class lectures and on-site visits.
**Prerequisites:** French 303(215)(P) or cons instr; acceptance for Study Abroad Prog; conc reg in French 595(C).
**Course Rules:** May not enroll conc in French 449. May be retaken w/chg in topic to 6 cr max.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

* Topic/genre in selected works by major writers from one or more French-speaking regions (France, Belgium, Switzerland, Quebec, the Caribbean, Africa, Southeast Asia, etc.).
**Prerequisites:** jr st or cons instr.
**Course Rules:** May be retaken w/chg in topic to 6 cr max.
**General Education Requirements:** HU
**Last Taught:** Fall 2017, Fall 2016, Fall 2013, Fall 2003.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
FRENCH 361 French for International Business/Professional Communication: Writing Focus
3 cr. Undergraduate.
Prerequisites: French 311(P) or 325(P).
Last Taught: Spring 2015, Fall 2013, Spring 2011, Spring 2009.
Current Offerings: http://uwm.edu/schedule

FRENCH 383 Honors Seminar:
3 cr. Undergraduate.
Reading and discussion of selected works.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

FRENCH 392 Phonetics
3 cr. Undergraduate.
Theory of French sounds; phonetic transcription; practice in pronunciation in class and in language laboratory.
Prerequisites: French 303(215)(P) or cons instr.
Course Rules: Required of teaching majors & minors.
Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

FRENCH 395 Reading French for Proficiency
3 cr. Undergraduate.
development of reading proficiency in French by focusing on vocabulary acquisition, recognition of cognates, and analysis of complex sentences in short literary and journalistic texts.
Prerequisites: French 324(327)(P), 325(P), or 332(322)(P).
Current Offerings: http://uwm.edu/schedule

FRENCH 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially-prepared program coursework.
Prerequisites: French 203(P); acceptance for Study Abroad Prog; conc reg in French 595(C).
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2017, Summer 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

FRENCH 401 French for Reading Knowledge
3 cr. Undergraduate.
For students with little or no previous knowledge of French; especially useful to graduate students fulfilling a language requirement.
Prerequisites: jr st.
Course Rules: Does not count toward the French major or minor.
Current Offerings: http://uwm.edu/schedule

FRENCH 402 Advanced Written Expression
3 cr. Undergraduate/Graduate.
Development of writing proficiency in a variety of genres through close analysis and imitation of good French writing; emphasis on usage, syntax, and authentic French expression.
Prerequisites: jr st & French 324(327)(P) & 325(P), or grad st.
Last Taught: Fall 2017, Spring 2013, Fall 2012, Spring 2012.
Current Offerings: http://uwm.edu/schedule

FRENCH 403 Royalty, Reason, and Revolution: The Golden Age of French Culture
3 cr. Undergraduate.
Major aspects of French society and its cultural expressions from the Renaissance through the Revolution.
Prerequisites: jr st; French 332(322)(P), French 324(327)(P) or 325(P); or cons instr.
Current Offerings: http://uwm.edu/schedule
FRENCH 430 Reaction and Innovation: French Culture of the 19th and 20th Centuries
3 cr. Undergraduate/Graduate.
French politics, society, and culture from Napoleon's First Empire to De Gaulle's Fifth Republic, 1804-1958.
Prerequisites: jr st; French 322(P); French 324(327)(P) or 325(P); or cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

FRENCH 431 Seminar in Literature of the Francophone World:
3 cr. Undergraduate.
Works written in French by writers of Africa, North Africa, the Caribbean, and Quebec.
Prerequisites: jr st; French 325(P) or 322(322)(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

FRENCH 432 Seminar in French and Francophone Cultures:
1-3 cr. Undergraduate.
In-depth study of selected topics in the cultures of France or French-speaking countries.
Prerequisites: French 324(327)(P) or 325(P), or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

FRENCH 433 Seminar in French Literature:
3 cr. Undergraduate.
In-depth study of important works of French literature.
Prerequisites: jr st; French 325(P) & 332(322)(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

FRENCH 449 Studies in French Culture:
2-4 cr. Undergraduate.
French culture through readings and on-site visits. Completing this course does not preclude taking required 300-level courses for cr upon return to UWM.
Prerequisites: 300-level French course; acceptance for Study Abroad Prog; conc reg in French 595(C).
Course Rules: May not enroll conc in French 349. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

FRENCH 450 Institutions and Culture of Contemporary France
3 cr. Undergraduate/Graduate.
Major political, social, cultural and economic forces shaping France today. France within the European Union and the Francophone world.
Prerequisites: jr st; French 325(P); one add'l 300-level French course or cons instr.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Spring 2010.
Current Offerings: http://uwm.edu/schedule

FRENCH 451 Cinema of the French-Speaking World:
3 cr. Undergraduate/Graduate.
Narrative techniques and thematic content of French-language cinema.
Prerequisites: jr st; two of French 324(327)(P), 325(P), 332(322)(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max. First enrollment only counts toward French major.
Current Offerings: http://uwm.edu/schedule

FRENCH 457 Topics in French and Francophone Studies in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context.
Prerequisites: jr st or cons instr.
Course Rules: CompLit 457 & French 457 are jointly offered; they count as repeats of one another. May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Fall 2009, Summer 1998.
Current Offerings: http://uwm.edu/schedule

FRENCH 465 Introduction to Translation: English to French
3 cr. Undergraduate/Graduate.
Translation of texts from English into French. Comparative study of French and English syntax and comparative culture.
Prerequisites: jr st; grade of B or better in French 325(P); French 427(P) or cons instr.
Course Rules: French 465 & Trnsltn 465 are jointly offered; they count as repeats of one another. Counts as repeat of French 499 with Intro to English to French Translation topic.
Last Taught: Fall 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

FRENCH 489 Internship in French
1-6 cr. Undergraduate.
Application of advanced principles of French in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; a 300-level or above course in French; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Fall 2017, Fall 2016, Summer 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

FRENCH 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: French 203(P), acceptance for Study Abroad Prog; conc reg in French 595(C).
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
**FRENCH 499 Ad Hoc:**  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.  
**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.  
**Course Rules:** May be retaken w/chg in topic.  
**Last Taught:** Summer 2004, Summer 2003, Spring 2003, Fall 1999.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Credit Hours</th>
<th>School Year</th>
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<tbody>
<tr>
<td>FRENCH 499</td>
<td>Ad Hoc</td>
<td>1-6 cr. Undergraduate. Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. <strong>Prerequisites:</strong> jr st; add'l prereqs may be assigned to specific topic. <strong>Course Rules:</strong> May be retaken w/chg in topic.</td>
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**FRENCH 510 Seminar on Masterpieces of Literature Written in French:**  
3 cr. Undergraduate/Graduate.  
Representative works of a major writer or writers.  
**Prerequisites:** jr st; French 325(P) & 332(322)(P); or cons instr.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**Last Taught:** Fall 2014, Fall 2013, Fall 2012, Fall 2009.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 520 Seminar in Contemporary French Literature:**  
3 cr. Undergraduate/Graduate.  
Trends and schools in contemporary novels, theatre, and poetry.  
**Prerequisites:** jr st; two of French 324(327)(P), 325(P), & 332(322)(P); French 392(P); or cons instr.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**Last Taught:** Spring 2010, Fall 1990, Spring 1987.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 592 Seminar in French Language:**  
3 cr. Undergraduate/Graduate.  
Historic, social, geographic, phonological, and lexical evolution of French. How French fits into global and regional contexts.  
**Prerequisites:** jr st; two of French 428(C), 429(C), 430(C), 431(C), 432(C), 433(C), 450(C), 510(C), or 592(C).  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 595 Study Abroad in France:**  
10-12 cr. Undergraduate.  
Designed to enroll students before level, content and credits of work in France are determined. Translated into French 290, 390, or 490 upon completion of program.  
**Prerequisites:** French 203(P); acceptance for Study Abroad Prog.  
**Last Taught:** Spring 2016, Spring 2011, Fall 2007, Spring 2005.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 599 Tools and Techniques of Research in French:**  
1 cr. Undergraduate.  
Library resources available for research in French language and literature, including online academic databases, the library catalogue, and reference books.  
**Prerequisites:** jr st; conc reg in one of French 428(C), 429(C), 430(C), 431(C), 432(C), 433(C), 450(C), 510(C), or 592(C).  
**Last Taught:** Fall 2009, Spring 2009, Fall 2008, Spring 2008.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 697 Study Abroad:**  
1-12 cr. Undergraduate/Graduate.  
Designed to enable students studying language abroad to receive course credit at appropriate level.  
**Prerequisites:** jr st; acceptance in Study Abroad Prog.  
**Course Rules:** May be retaken w/chg in topic.  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 699 Advanced Independent Reading:**  
1-3 cr. Undergraduate.  
Advanced independent work under the supervision of a French faculty or instructional academic staff member. For further information, consult French prog coord.  
**Prerequisites:** jr st; two 300-level French courses, 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.  
**Course Rules:** May be retaken w/chg in topic.  
**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Summer 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 700 Practicum in French Language Teaching Methods:**  
1 cr. Graduate.  
Practical application within French of methods and concepts taught in MALLT(MAFLL) 700.  
**Prerequisites:** grad st; MALLT(MAFLL) 700(C) or cons instr.  
**Course Rules:** Retakable to 2 cr max.  
**Last Taught:** Spring 2018, Spring 2016, Spring 2015, Spring 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 706 Introduction to Translation: French to English:**  
3 cr. Graduate.  
Introduction to basic skills necessary to professional translation. Translation of texts form French into English. Summarizing texts. Sight translation.  
**Prerequisites:** grad st; admis to Trnsltn Prog or cons instr.  
**Course Rules:** French 706 (715) & Trnsltn 706 (715) are jointly offered; they count as repeats of one another. Counts as repeat of French/Trnsltn 415 (425) taken for grad cr.  
**Last Taught:** Fall 2016, Fall 2012.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 716 Seminar in Advanced Translation: French to English:**  
3 cr. Graduate.  
Translation from French into English; advanced grammar; techniques of documentation.  
**Prerequisites:** grad st; French 415(425)(P) or cons instr.  
**Course Rules:** French 716(515) & Trnsltn 716(515) are jointly offered; they count as repeats of one another. Counts as repeat of French/Trnsltn 415 (425) taken for grad cr.  
**Last Taught:** Spring 2017, Spring 2011, Spring 2009, Spring 2007.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 731 Seminar in Literature of the Francophone World:**  
3 cr. Graduate.  
Works written in French by writers of Africa, North Africa, the Caribbean, and Quebec.  
**Prerequisites:** grad st.  
**Course Rules:** Retakable w/chg in topic to 9 cr max.  
**Last Taught:** Spring 2017, Spring 2016, Fall 2015, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**FRENCH 732 Topics in French and Francophone Culture:**  
1-3 cr. Graduate.  
Advanced study of selected topics in the cultures of France or french-speaking countries.  
**Prerequisites:** Grad st; cons instr.  
**Course Rules:** Retakable w/chg in topic to 9 cr max. Not open for cr to students w/cr in French 432 w/same subtitle.  
**Last Taught:** Fall 2015, Spring 2011, Fall 2010, Spring 1998.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
ITALIAN 112 Italian Language and Culture for Professional Communication
4 cr. Undergraduate.
Basic conversational Italian and discussions in English of contemporary culture; for those doing business in Italy.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ITALIAN 145 Views of Italy:
3 cr. Undergraduate.
Variable content, with specific topics focusing on the interrelation of literary works and sociocultural values and traditions of Italy.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ITALIAN 155 Masterpieces of Italian Literature in Translation
3 cr. Undergraduate.
Major works of different periods and genres. Introduction to the critical reading of literary texts.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

ITALIAN 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ITALIAN 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work, level, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ITALIAN 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 203 Third-Semester Italian
3 cr. Undergraduate.
Development of reading, writing, and oral skills; review and further study of grammar.
Prerequisites: Italian 104(P), 114(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
ITALIAN 204 Fourth-Semester Italian
3 cr. Undergraduate.
Continuation of Italian 203.
Prerequisites: Italian 203(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Current Offerings: http://uwm.edu/schedule

ITALIAN 213 Grammar for Students of Foreign Languages
3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Linguist 213, Polish 213, Russian 213, & Spanish 213.
Current Offerings: http://uwm.edu/schedule

ITALIAN 215 Italian Conversation
3 cr. Undergraduate.
Development of ability to speak and write Italian, with emphasis on everyday speech.
Prerequisites: Italian 104(P) or 114(P) or placement.
Course Rules: Should be taken conc with Italian 203 or 204. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 229 Italian Cinema
3 cr. Undergraduate.
Historical and stylistic study of film as an expression of the contemporary culture of Italy.
Prerequisites: none.
Last Taught: Fall 2009, Fall 2005, Fall 1994.
Current Offerings: http://uwm.edu/schedule

ITALIAN 242 Topics in Italian American Studies:
3 cr. Undergraduate.
Interdisciplinary study of aspects of Italian American ethnicity, history, and culture.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ITALIAN 243 Topics in Italian American Film:
3 cr. Undergraduate.
Study of selected topics in Italian American film.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ITALIAN 245 Italian Fictions:
3 cr. Undergraduate.
Literary themes, types, or figures as they appear throughout Italian literature.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2016, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

ITALIAN 246 Introduction to Italian Food Studies: A Cultural History
3 cr. Undergraduate.
Interdisciplinary study of Italian cooking and cuisine in fiction and non-fiction works from the Estruscan and Roman times to the present.
Prerequisites: none.
Course Rules: Taught in English.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ITALIAN 248 Topics in Italian American Film:
3 cr. Undergraduate.
Application of basic principles of Italian in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: Italian 104(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 256 Contemporary Italian Society and Culture
3 cr. Undergraduate.
Interdisciplinary study, using audio-visual materials, of social, economic, and cultural features shaping Italy today.
Prerequisites: soph st.
Course Rules: In English; reading & papers in Italian required of majors (option A).
General Education Requirements: HU
Last Taught: Fall 2014, Fall 2012, Spring 2011, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ITALIAN 257 Italian Discussion Section:
1-2 cr. Undergraduate.
Discussion in Italian, designed to broaden perspectives, improve language skills.
Prerequisites: Italian 204(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 258 Contemporary Italian Society and Culture
3 cr. Undergraduate.
Interdisciplinary study, using audio-visual materials, of social, economic, and cultural features shaping Italy today.
Prerequisites: soph st.
Course Rules: In English; reading & papers in Italian required of majors (option A).
General Education Requirements: HU
Last Taught: Fall 2014, Fall 2012, Spring 2011, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ITALIAN 259 Internship in Italian, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Italian in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: Each cr earned for academic work based on 40 hrs internship. May be retaken to 6 cr max. Prereq Italian 104(P) or 114(P); 2.25 gpa; cons supervising faculty member.
Current Offerings: http://uwm.edu/schedule

ITALIAN 296 UROP Apprenticeship
1-9 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One cr for 45 hrs of research.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 9 cr max in any combination of UROP Apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

ITALIAN 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
ITALIAN 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one addl sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2003.
Current Offerings: http://uwm.edu/schedule

ITALIAN 310 Italian Immersion
1-2 cr. Undergraduate.
Concentrated, structured practice of spoken Italian on varied contemporary topics; small-group setting with native speakers, simulating immersion experience. Improve communication skills, build vocabulary. May be offered in short-term sessions.
Prerequisites: Italian 203(P) or cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 311 Advanced Conversation and Composition: Contemporary Italian Usage
3 cr. Undergraduate.
Development of advanced speaking, writing, and reading skills. Films and readings emphasize twentieth century Italy. Focus varies each semester.
Prerequisites: Italian 204(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ITALIAN 312 Contemporary Italian Language and Culture
3 cr. Undergraduate.
Contemporary culture through Italian readings, film, world wide web, and refinement of advanced conversation and composition skills. Themes vary each semester.
Prerequisites: Italian 204(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 cr).
Course Rules: May be retaken to 6 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

ITALIAN 313 Translation: Italian-English, English-Italian
3 cr. Undergraduate.
Contrastive study of literary and non-literary Italian and English prose styles and of the technical problems of translation.
Prerequisites: Italian 203(P) or cons instr.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

ITALIAN 321 Introduction to Italian Literature
3 cr. Undergraduate.
Varied approaches to reading works by major Italian authors. Development of critical skills in speaking and writing. Texts vary each semester.
Prerequisites: Italian 204(P) or cons instr.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ITALIAN 322 Introduction to Italian Literature and Film
3 cr. Undergraduate.
Interdisciplinary approaches to major works of literature and film. Development of critical reading, speaking, and writing skills. Texts vary each semester.
Prerequisites: Italian 204(P) or cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 333 Dante's Divine Comedy in Translation
3 cr. Undergraduate/Graduate.
Close reading of the Inferno, Purgatorio, and Paradiso, including their connections to the visual arts.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2013, Spring 2011, Spring 2009.
Current Offerings: http://uwm.edu/schedule

ITALIAN 335 Political Theory, Historiography, and Scientific Thought in Italy
3 cr. Undergraduate.
Nature of the universe and human history in works of Dante, Machiavelli, Galileo, Bruno, Campanella, Vico, Croce, and Gramsci. Reading and papers in Italian required of majors (option A).
Prerequisites: jr st; cons instr.
Current Offerings: http://uwm.edu/schedule

ITALIAN 357 Topics in Italian Culture in Translation
3 cr. Undergraduate.
Examination of a specific topic or genre in works from one or more periods.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Fall 2011, Fall 2010, Fall 2007.
Current Offerings: http://uwm.edu/schedule

ITALIAN 383 Honors Seminar
3 cr. Undergraduate.
A period, figure, theme, or genre. Specific aims and method of course vary according to the topic.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 391 Phonetics
2 cr. Undergraduate/Graduate.
Theory of Italian sounds; phonetic transcription; practice in pronunciation. Language lab may be required.
Prerequisites: jr st & Italian 311(P) or 312(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ITALIAN 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2016, UWinteriM 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule
ITALIAN 413 Introduction to Italian to English Translation
3 cr. Undergraduate/Graduate.
Comprehensive overview of Italian to English translation; interactive learning of vocabulary and language usage through application of different translation topics; literary, technical, personal documents translation.
Prerequisites: two of Italian 311(P), 312(P), 321(P), or 322(P) or equiv; or admis to grad prog in Translation; or cons instr.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

ITALIAN 414 Advanced Seminar in Italian to English Translation
3 cr. Undergraduate/Graduate.
Advanced level Italian to English translation overview; interactive learning of language usage through advanced exercises covering different translation topics; medicine, technology, business/advertising, and film/ subtitling.
Prerequisites: jr st; Italian 413(P); or cons instr.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

ITALIAN 456 Topics in Italian Food Studies:
3 cr. Undergraduate/Graduate.
Interdisciplinary study of a topic or period related to Italian food culture, with attention to historical and social contexts.
Prerequisites: jr st or cons instr.
Course Rules: Taught in English. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 457 Topics in Italian Literature and Culture in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of major works on a topic, genre, or period; attention to cultural and historical context.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015, Spring 2014, Spring 2012.
Current Offerings: http://uwm.edu/schedule

ITALIAN 551 Literature of the Thirteenth and Fourteenth Centuries
3 cr. Undergraduate.
The first masterpieces of modern European literature from the Sicilian School of poetry to Petrarch, and from the early novellas to Boccaccio's Decameron.
Prerequisites: jr st; Italian 311(P) & 312(P).
Current Offerings: http://uwm.edu/schedule

ITALIAN 552 The Renaissance:
3 cr. Undergraduate.
One or more aspects of intellectual, literary, and artistic production in Italy from Petrarch and Humanism to the Counter-Reformation.
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 556 A Literary Period:
3 cr. Undergraduate.
Interdisciplinary study of the main literary, intellectual, and cultural aspects of a specific period.
Prerequisites: jr st; Italian 311(P) & 312(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 570 Outline of Italian Literary History
3 cr. Undergraduate.
Historical overview of Italian literature covering the major periods and movements and stressing the relations between literature, philosophy, and aesthetics.
Prerequisites: jr st; Italian 311(P) & 312(P).
Current Offerings: http://uwm.edu/schedule

ITALIAN 489 Internship in Italian, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of Italian in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; Italian 311(P) & 312(P); 2.25 gpa; cons supervising faculty member.
Course Rules: Each cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ITALIAN 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ITALIAN 413 Introduction to Italian to English Translation
3 cr. Undergraduate/Graduate.
Comprehensive overview of Italian to English translation; interactive learning of vocabulary and language usage through application of different translation topics; literary, technical, personal documents translation.
Prerequisites: two of Italian 311(P), 312(P), 321(P), or 322(P) or equiv; or admis to grad prog in Translation; or cons instr.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

ITALIAN 414 Advanced Seminar in Italian to English Translation
3 cr. Undergraduate/Graduate.
Advanced level Italian to English translation overview; interactive learning of language usage through advanced exercises covering different translation topics; medicine, technology, business/advertising, and film/ subtitling.
Prerequisites: jr st; Italian 413(P); or cons instr.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

ITALIAN 456 Topics in Italian Food Studies:
3 cr. Undergraduate/Graduate.
Interdisciplinary study of a topic or period related to Italian food culture, with attention to historical and social contexts.
Prerequisites: jr st or cons instr.
Course Rules: Taught in English. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 457 Topics in Italian Literature and Culture in Translation:
3 cr. Undergraduate/Graduate.
Critical reading, lectures, and discussion of major works on a topic, genre, or period; attention to cultural and historical context.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015, Spring 2014, Spring 2012.
Current Offerings: http://uwm.edu/schedule

ITALIAN 551 Literature of the Thirteenth and Fourteenth Centuries
3 cr. Undergraduate.
The first masterpieces of modern European literature from the Sicilian School of poetry to Petrarch, and from the early novellas to Boccaccio's Decameron.
Prerequisites: jr st; Italian 311(P) & 312(P).
Current Offerings: http://uwm.edu/schedule

ITALIAN 552 The Renaissance:
3 cr. Undergraduate.
One or more aspects of intellectual, literary, and artistic production in Italy from Petrarch and Humanism to the Counter-Reformation.
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 556 A Literary Period:
3 cr. Undergraduate.
Interdisciplinary study of the main literary, intellectual, and cultural aspects of a specific period.
Prerequisites: jr st; Italian 311(P) & 312(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 570 Outline of Italian Literary History
3 cr. Undergraduate.
Historical overview of Italian literature covering the major periods and movements and stressing the relations between literature, philosophy, and aesthetics.
Prerequisites: jr st; Italian 311(P) & 312(P).
Current Offerings: http://uwm.edu/schedule
ITALIAN 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ITALIAN 629 Major Film Directors:
3 cr. Undergraduate.
Thematic, stylistic, and aesthetic study of outstanding figures of the Italian cinema.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max. In English.
Last Taught: Spring 2008.
Current Offerings: http://uwm.edu/schedule

ITALIAN 659 The Divine Comedy
3 cr. Undergraduate/Graduate.
Lectures on the life and times of Dante and reading of selected passages from his minor works.
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ITALIAN 660 The Divine Comedy
3 cr. Undergraduate/Graduate.
Continuation of Italian 659.
Prerequisites: jr st & Italian 659(P) or cons instr; or grad st.
Current Offerings: http://uwm.edu/schedule

ITALIAN 670 Studies in Italian Literature:
3 cr. Undergraduate/Graduate.
Major movements or periods, criticism, studies in genres, relations between literature and other disciplines/arts.
Prerequisites: jr st & Italian 311(P) & 312(P); or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ITALIAN 671 Major Italian Authors:
3 cr. Undergraduate.
Specific subjects may be the works of one or several authors studied in the aesthetic and intellectual contexts of the period covered.
Prerequisites: jr st; Italian 311(P) & 312(P).
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ITALIAN 675 Literary Theory and Critical Perspectives
3 cr. Undergraduate.
Major trends in Italian critical thought, with emphasis on contemporary literary theory and methods; stylistic, psychoanalytic, Marxist, and semiotic criticism.
Prerequisites: jr st; Italian 311(P) & 312(P).
Current Offerings: http://uwm.edu/schedule

ITALIAN 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ITALIAN 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of an Italian faculty or instructional academic staff member. For additional information, consult Italian prog coord.
Prerequisites: jr st; 2.5 GPA, & writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ITALIAN 729 Major Film Directors:
3 cr. Graduate.
Thematic, stylistic, and aesthetic study of outstanding figures of the Italian cinema.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2008.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anita Alkhas</td>
<td>Associate Professor (French)</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>🟢</td>
<td></td>
</tr>
<tr>
<td>Lawrence Baldassaro</td>
<td>Professor Emeritus (Italian)</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
<td>🟢</td>
<td></td>
</tr>
<tr>
<td>Sarah Davies Cordova</td>
<td>Professor (French)</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>🟢</td>
<td></td>
</tr>
<tr>
<td>Lawrence Kuiper</td>
<td>Associate Professor (French)</td>
<td>PhD</td>
<td></td>
<td>🟢</td>
<td></td>
</tr>
<tr>
<td>James Mileham</td>
<td>Associate Professor Emeritus (French)</td>
<td>PhD</td>
<td></td>
<td>🟢</td>
<td></td>
</tr>
<tr>
<td>Simonetta Milli-Konewko</td>
<td>Associate Professor (Italian)</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<td></td>
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<tr>
<td>Peter Paik</td>
<td>Associate Professor (Comparative Literature)</td>
<td>PhD</td>
<td>Cornell University</td>
<td>🟢</td>
<td></td>
</tr>
<tr>
<td>Robin Pickering-Iazzi</td>
<td>Professor (Comparative Literature/Italian) / Chair</td>
<td>PhD</td>
<td>University of Washington</td>
<td>🟢</td>
<td></td>
</tr>
<tr>
<td>Kristin Pitt</td>
<td>Associate Professor (Comparative Literature)</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td>🟢</td>
<td></td>
</tr>
</tbody>
</table>
Business French, Minor

Develop global perspectives sought by companies, educational institutions and NGOs in the US, France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore our many study abroad (http://uwm.edu/cie/study-abroad) opportunities. Students who enter UWM with advanced French can earn both a bachelor’s and master’s in 5 years to become a translator/interpreter.

Fluency in French can provide a career advantage in all types of professions including business, medicine, law, the arts, politics, government work, and more. The country of France is a leader in science and high-tech, architecture, fashion, and cuisine, making French fluency valuable in these industries as well.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of French in order to successfully apply their fluency.

Student with no previous experience in French will start in the introductory French language class; those who have studied French in high school should take the placement exam to determine if they can start at a higher level. Students who place in a higher-level course who subsequently complete that course with a “B” or better may receive retroactive credits for the courses that were skipped.

Requirements

The business French minor consists of a minimum of 18 credits taken in one of two tracks. The curriculum includes courses in business administration for non-business students and courses in the practical and professional use of the French language as well as understanding of Francophone culture for business students. Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Substitutions for some course requirements are possible and may include internships with firms doing business in French-speaking countries (including Canada). Students also have the option of completing a Certificate in Business French offered by the Paris Chamber of Commerce. For further information, consult the French Program Coordinator.

Non-Business Student Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 311</td>
<td>French for International Business/Professional Communication: Oral Emphasis</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 361</td>
<td>French for International Business/Professional Communication: Writing Focus</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201 or BUS ADM 360</td>
<td>Introduction to Financial Accounting/Principles of Marketing</td>
<td>3-4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 324</td>
<td>Contemporary French Language and Culture¹</td>
<td></td>
</tr>
<tr>
<td>FRENCH 430</td>
<td>Reaction and Innovation: French Culture of the 19th and 20th Centuries</td>
<td></td>
</tr>
<tr>
<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures:</td>
<td></td>
</tr>
<tr>
<td>FRENCH 450</td>
<td>Institutions and Culture of Contemporary France</td>
<td></td>
</tr>
<tr>
<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World:¹</td>
<td></td>
</tr>
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</table>

Select at least 3 credits in the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 210</td>
<td>French Immersion: Intermediate</td>
</tr>
<tr>
<td>FRENCH 303</td>
<td>Conversation and Composition: Intermediate Level¹</td>
</tr>
<tr>
<td>FRENCH 324</td>
<td>Contemporary French Language and Culture (if not selected above)¹</td>
</tr>
<tr>
<td>FRENCH 325</td>
<td>Intensive Grammar and Usage</td>
</tr>
<tr>
<td>FRENCH 410</td>
<td>French Immersion: Advanced</td>
</tr>
<tr>
<td>FRENCH 415</td>
<td>Introduction to Translation: French to English</td>
</tr>
</tbody>
</table>

Total Credits 18-19

¹ These courses satisfy GER Humanities distribution requirements.
### Business Student Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>FRENCH 203</td>
<td>Third-Semester French ¹</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 204</td>
<td>Fourth-Semester French ¹</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 311</td>
<td>French for International Business/Professional Communication: Oral Emphasis</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 361</td>
<td>French for International Business/Professional Communication: Writing Focus</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

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<td></td>
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<tr>
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</tr>
<tr>
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<td>Seminar in French and Francophone Cultures:</td>
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<td>Institutions and Culture of Contemporary France</td>
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<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World: ²</td>
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Select at least 3 credits in the following: 3

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<td></td>
</tr>
<tr>
<td>FRENCH 410</td>
<td>French Immersion: Advanced</td>
<td></td>
</tr>
<tr>
<td>FRENCH 415</td>
<td>Introduction to Translation: French to English</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

¹ Students who place into FRENCH 303 and above, and therefore are exempt from taking FRENCH 203 and FRENCH 204, are expected to take 6 additional credits in language and culture at the 300 level and above.

² These courses satisfy GER Humanities distribution requirements.

### Contact Information

Current Students contact the Department directly, french-italian@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/french/undergraduate/minor/

### Comparative Literature, BA

In the Comparative Literature major, students examine literature across languages, geographic location, time periods, and genres. The discipline also explores the relationship between literature and other forms of cultural expression such as pop culture, technology, arts, music, or film, as well as the relationship between literature and other academic disciplines, like anthropology, history, religious studies, or women's and gender studies. It's a great major for anyone who loves to explore other cultures.

Students sometimes ask whether they need to be fluent in a foreign language in order to study comparative literature. Definitely not! While all of UWM's instructors and faculty in comparative literature do research in other languages, all Comparative Literature courses are taught entirely in English. Comparative Literature majors choose one of two paths - one path that requires some literature courses be taken in a foreign language program, or another path where all classes are taught in English.

Our alumni can be found working in university and K-12 education, the arts, politics, law, library services, publishing, social services, journalism and communications, editorial roles, marketing, fundraising, corporate sales, consulting, and many other fields. Their knowledge and skills in cross-cultural communication, critical analysis, reading and comprehension of complex text, and writing are highly valued.

### Requirements

#### Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

#### University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
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</table>

#### Oral and Written Communication

**Part A**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
</tbody>
</table>

**Part B**

Course designated as OWC-B; may be completed through a major-specific course requirement

#### Quantitative Literacy

**Part A**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

#### Arts

Select 3 credits

#### Humanities

Select 6 credits

#### Social Sciences
Select 6 credits | 6
---|---
**Natural Sciences**
Select 6 credits (at least two courses including one lab) | 6
---|---
**UWM Foreign Language Requirement**
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent
---|---
**UWM Cultural Diversity Requirement**
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

### College of Letters & Science Requirements

#### I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

#### II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

Complete one of the following:

- 3 or more credits in any 200-level or above Math course
- AFRICOL 220 | Introduction to Statistics in Africology |
- ANTHRO 568 | Introduction to Anthropological Statistics |
- ATM SCI 500 | Statistical Methods in Atmospheric Sciences |
- BIO SCI 465 | Biostatistics |
- ECON 210 | Economic Statistics |
- GEOG 247 | Quantitative Analysis in Geography |
- HIST 595 | The Quantitative Analysis of Historical Data |
- MTHSTAT 215 | Elementary Statistical Analysis |
- PHILOS 211 | Elementary Logic |
- POL SCI 390 | Political Data Analysis |
- POL SCI 392 | Survey Research |
- PSYCH 210 | Psychological Statistics |
- SOCIOL 261 | Introduction to Statistical Thinking in Sociology |

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

#### III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

#### IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

#### V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU); Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
</tbody>
</table>
**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

### Major Requirements

The program welcomes prospective majors who have maintained a minimum 2.500 GPA in their language and literature courses during the freshman and sophomore years. Prospective majors should meet with the Comparative Literature coordinator to declare the major. Students are assigned a Comparative Literature advisor in their primary areas of interest. The advisor helps students design plans of study tailored to their particular interests, academic goals, and professional aspirations.

Comparative literature majors are encouraged to take additional literature courses offered in languages other than English when possible. They also are encouraged to take additional courses outside of the program in the analysis of literature and other arts. In many cases, these courses may be counted toward the comparative literature major.

All CompLit courses and approved electives that a student takes will count in the Comparative Literature major. All CompLit courses and approved electives that a student takes will count in calculating the major GPA. The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

The department offers two options for the major. Both major options require that, in their senior year, students complete a research project that focuses on major theoretical and critical trends in comparative literature. Students may fulfill this requirement by completing either COMPLIT 463 or COMPLIT 464.

### Credit Requirements

A total of 36 credits is required for the major, including COMPLIT 207 and COMPLIT 208 and at least 24 credits at the advanced level (numbered 300 and above). At least 15 of the advanced credits must be taken in residence at UWM. Students may count toward the major up to 6 credits in the following selected in consultation with their advisor.

#### Option A

This option is recommended particularly for students who intend to pursue graduate work in comparative literature. Option A students must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 463 or COMPLIT 464</td>
<td>Literary Criticism: Major Authors or Seminar in Comparative Literary Criticism:</td>
<td>3</td>
</tr>
<tr>
<td>Select 9-12 credits in CompLit courses numbered 300 and above</td>
<td></td>
<td>9-12</td>
</tr>
<tr>
<td>Select 9-12 credits in advanced literature courses (numbered 300 and above) offered in a foreign language</td>
<td></td>
<td>9-12</td>
</tr>
</tbody>
</table>

#### Electives

Select 6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLIT 133</td>
<td>Contemporary Imagination in Literature and the Arts</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film:</td>
<td>3</td>
</tr>
<tr>
<td>CompLit courses numbered 300 and above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

36

#### Option B

This option is offered for students with little if any training in a foreign language. Though such work normally is not considered as suitable
preparation for graduate work in comparative literature, Option B offers training that is useful and applicable in many academic and professional fields. Option B students must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 463 or COMPLIT 464</td>
<td>Literary Criticism: Major Authors or Seminar in Comparative Literary Criticism:</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 12 additional credits in CompLit courses numbered 300 and above
Select 9 credits in advanced courses (300 and above) in the analysis of literature or the other arts ¹

Electives
Select 6 credits from the following:
- COMPLIT 133 | Contemporary Imagination in Literature and the Arts
- COMPLIT 230 | Literature and Society.
- COMPLIT 231 | Literature and Religion.
- COMPLIT 232 | Literature and Politics.
- COMPLIT 233 | Literature and Film.

CompLit courses numbered 300 and above

Total Credits: 36

¹ Advanced courses (300 and above) in the analysis of literature or the other arts offered by CompLit or by other related departments and programs, with the approval of the CompLit advisor. This includes literature-in-translation courses offered by foreign language programs as well as courses in Art History, English, Film Studies, Philosophy, Religious Studies, or other disciplines that have as their focus the study of literature and/or the other arts.

Comparative Literature Advising
Students select a departmental advisor from Comparative Literature faculty and staff upon declaring a major or minor in Comparative Literature. Departmental advisors work closely with students to develop an individual course of study that will both match their interests and fulfill program requirements.

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Program directly, comp-lit@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/comparative-literature/undergraduate/
Comparative Literature, Minor

Students examine literature across languages, geographic location, time periods, and genres by pursuing the comparative literature minor. The discipline also explores the relationship between literature and other forms of cultural expression such as pop culture, technology, arts, music, or film, as well as the relationship between literature and other academic disciplines, like anthropology, history, religious studies, or women's and gender studies. It’s a great major or minor for anyone who loves to explore other cultures.

Students sometimes ask whether they need to be fluent in a foreign language in order to study comparative literature. Definitely not! While all of UWM’s instructors and faculty in comparative literature do research in other languages, all Comparative Literature courses are taught entirely in English.

Requirements

The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all credits attempted, including any transfer work. The minor requires 18 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLIT 207</td>
<td>Global Literature from Antiquity to the 1600s:</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 208</td>
<td>Global Literature from the 17th Century to the Present:</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 133</td>
<td>Contemporary Imagination in Literature and the Arts</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics:</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film:</td>
<td></td>
</tr>
</tbody>
</table>

Select 9 credits at the advanced level (numbered 300 or above), which must be taken in residence at UWM

Total Credits 18

Contact Information

Current Students contact the Program directly, comp-lit@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/comparative-literature/undergraduate/

French and Francophone Studies, Undergraduate Certificate

Develop global perspectives sought by companies, educational institutions and NGOs in the US, France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore our many study abroad opportunities. Students who enter UWM with advanced French can earn both a bachelor’s and master’s in 5 years to become a translator/interpreter.

Fluency in French can provide a career advantage in all types of professions including business, medicine, law, the arts, politics, government work, and more. The country of France is a leader in science and high-tech, architecture, fashion, and cuisine, making French fluency valuable in these industries as well.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of French in order to successfully apply their fluency.

Student with no previous experience in French will start in the introductory French language class; those who have studied French in high school should take the placement exam to determine if they can start at a higher level. Students who place in a higher-level course who subsequently complete that course with a “B” or better may receive retroactive credits for the courses that were skipped.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The undergraduate certificate in French and Francophone Studies is open to all students seeking a bachelor’s degree from UWM, to students who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

Requirements

Students must achieve a grade point average of 2.750 or higher in the courses that satisfy the program requirements, and all such courses must be graded. They cannot be taken on a credit/no credit basis.

Certificate students who are majoring or minoring in French must take at least 9 credits outside the French curricular area.

Credits earned at other institutions in equivalent French and Francophone Studies courses will be accepted in partial fulfillment of the requirements. Students must obtain the approval of the certificate program committee to apply more than 9 credits from courses at other institutions to the UWM program.

Students currently enrolled at UWM who fulfilled some of the program’s requirements prior to its approval may have their credits applied retroactively toward the certificate.

To obtain a certificate in French and Francophone Studies with language proficiency, students must complete, as part of or in addition to the
certificate requirements, 9 credits in language, literature, or culture courses taught in French numbered 300 or above.

Students enrolled in the program must complete at least 18 credits from the list of courses (see below) approved for the certificate, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.</td>
<td>Select 3 credits in a French language course numbered 200 or above</td>
<td>3</td>
</tr>
<tr>
<td>II.</td>
<td>Select 3 additional credits in humanities</td>
<td>3</td>
</tr>
<tr>
<td>III.</td>
<td>Select 6 credits in social sciences</td>
<td>6</td>
</tr>
<tr>
<td>IV.</td>
<td>Select 6 credits in courses dealing with Europe</td>
<td>6</td>
</tr>
<tr>
<td>V.</td>
<td>Select 6 credits in courses dealing with Francophone areas outside of Europe</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Credits:** 24

Of the courses taken to complete these requirements, 9 credits must be in courses numbered 300 or above.

**Exit Survey**

All students are required to complete an exit survey upon completion of their required coursework. The assessment process allows certificate students to reflect on their experiences while providing important information to help improve the program. The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

**Please Note:** The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

**Approved Courses**

The following courses are approved to satisfy requirements for the French and Francophone Studies Certificate. The Roman numerals within the parentheses following each course title indicate the requirement(s), I through VI, for which the course counts. See the program coordinator for the most current list.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 311</td>
<td>French for International Business/Professional Communication: Oral Emphasis (I)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 324</td>
<td>Contemporary French Language and Culture (I, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 325</td>
<td>Intensive Grammar and Usage (I)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 332</td>
<td>Reading French Texts (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 349</td>
<td>Studies in French Culture: (II, V)</td>
<td>2-4</td>
</tr>
<tr>
<td>FRENCH 357</td>
<td>Literature of the French-Speaking World in Translation: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 361</td>
<td>French for International Business/Professional Communication: Writing Focus (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 392</td>
<td>Phonetics (I, II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 415</td>
<td>Introduction to Translation: French to English (V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 427</td>
<td>Advanced Written Expression (I, II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 428</td>
<td>Castles, Cathedrals, and Common People: The Foundations of French Culture (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 429</td>
<td>Royalty, Reason, and Revolution: The Golden Age of French Culture (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 430</td>
<td>Reaction and Innovation: French Culture of the 19th and 20th Centuries (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 431</td>
<td>Seminar in Literature of the Francophone World: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 433</td>
<td>Seminar in French Literature: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 449</td>
<td>Studies in French Culture: (II, V)</td>
<td>2-4</td>
</tr>
<tr>
<td>FRENCH 450</td>
<td>Institutions and Culture of Contemporary France (II)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 457</td>
<td>Topics in French and Francophone Studies in Translation: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 465</td>
<td>Introduction to Translation: English to French (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 489</td>
<td>Internship in French (II, V)</td>
<td>1-6</td>
</tr>
<tr>
<td>FRENCH 499</td>
<td>Ad Hoc: (II, V)</td>
<td>1-6</td>
</tr>
<tr>
<td>FRENCH 510</td>
<td>Seminar on Masterpieces of Literature Written in French: (II, V)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 242</td>
<td>Women and Gender in Europe: 1750 to the Present (III, IV)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 355</td>
<td>Modern and Contemporary France (III, IV)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 386</td>
<td>Africa: The Age of Empires to 1880 (III, IV)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 387</td>
<td>Africa: Imperialism and Independence Since 1880 (III, IV)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar: (with appropriate subtitle) (III, IV, V)</td>
<td>3</td>
</tr>
<tr>
<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind: (with appropriate subtitle) (II, III, IV, V)</td>
<td>3</td>
</tr>
</tbody>
</table>
French, BA

Develop global perspectives sought by companies, educational institutions and NGOs in the U.S., France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore our many study abroad (http://uwm.edu/cie/study-abroad) opportunities. Students who enter UWM with advanced French can earn both a bachelor’s and master’s in 5 years to become a translator/interpreter.

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Student with no previous experience in French will start in the introductory French language class; those who have studied French in high school should take the placement exam to determine if they can start at a higher level. Students who place in a higher-level course who subsequently complete that course with a "B" or better may receive retroactive credits for the courses that were skipped.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
</tr>
<tr>
<td></td>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language).

### IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete in one of the following ways:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

### V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses
from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Major Requirements**
The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

The major in French consists of 27 credits, at least 15 numbered above 303 taken in residence at UWM. The department offers two options:

- French and Francophone Option
- French Translation Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 324</td>
<td>Contemporary French Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 325</td>
<td>Intensive Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 332</td>
<td>Reading French Texts</td>
<td>3</td>
</tr>
</tbody>
</table>

**Research Requirements**
Select two of the following:

- FRENCH 428 Castles, Cathedrals, and Common People: The Foundations of French Culture
- FRENCH 429 Royalty, Reason, and Revolution: The Golden Age of French Culture
- FRENCH 430 Reaction and Innovation: French Culture of the 19th and 20th Centuries

**Options**
Select one of the following options:

- French and Francophone
- French Translation

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 415</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 465</td>
<td>Introduction to Translation: English to French</td>
<td>3</td>
</tr>
<tr>
<td>or FRENCH 716</td>
<td>Seminar in Advanced Translation: French to English</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one elective course in French numbered above 350

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**French and Francophone**
The French and Francophone option requires 12 additional credits in courses numbered above 350 for a total of at least 27 credits in advanced-level French courses.

**French Translation**
The French Translation option requires 12 additional credits in courses numbered above 350 for a total of at least 27 credits, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 415</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 465</td>
<td>Introduction to Translation: English to French</td>
<td>3</td>
</tr>
<tr>
<td>or FRENCH 716</td>
<td>Seminar in Advanced Translation: French to English</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one elective course in literature in French numbered above 400

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Related Course**
The following course offered by the Department of Linguistics may be of interest to students concentrating in French. It may not, however, be used to fulfill curricular requirements of the undergraduate major in French.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

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The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

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**Honors in the College of Letters and Science**

**Dean's Honor List**
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

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**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**
Current Students contact the program directly, french-italian@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/french/undergraduate/

**Italian, BA**

Italy has one of the ten largest economies in the world, and mastering Italian can open up a world of professional and personal opportunities.

Italian has more than 67 million native speakers worldwide. Some 120 million people speak Italian as a second language. In addition to serving as the official language of Italy, Italian is common in 29 countries, such as Switzerland, Germany, Belgium, North Africa, Brazil, Canada, and the United States.

Learning Italian serves as a gateway to a wide variety of career opportunities, in finance, marketing, journalism, translation, and computer programming. Italy is also a leader in the fields of air and water quality control, transportation technology, food and beverage fields, robotics, interior design and fashion.

The courses in the Italian Program are designed to help students become fluent in both the language and culture of Italy. On the very first day of class, students begin speaking Italian, and gain valuable communication skills as they progress through the Intermediate and advanced courses. Students may choose from an array of Italian courses on various topics that enable them to understand key turning points in Italian history, society and politics, cultural trends, and movements in such arts as film and literature. Italian courses contribute to such programs as Global Studies and the certificate program in Food Studies.

Student with no previous experience in French will start in the introductory French language class; those who have studied French in high school should take the placement exam to determine if they can start at a higher level. Students who place in a higher-level course who subsequently complete that course with a "B" or better may receive retroactive credits for the courses that were skipped.

**Requirements**
The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. At least 9 credits must be taken at the 300 level or above in residence at UWM.

The minor in French consists of a minimum of 18 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRENCH 204</td>
<td>Fourth-Semester French (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 303</td>
<td>Conversation and Composition: Intermediate Level (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 332</td>
<td>Reading French Texts (or equivalent)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 credits in French literature, language, and culture above the 300 level

Total Credits: 18

**French, Minor**

Develop global perspectives sought by companies, educational institutions and NGOs in the US, France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore our many study abroad (http://uwm.edu/cie/study-abroad) opportunities. Students who enter UWM with advanced French can earn both a bachelor's and master's in 5 years to become a translator/interpreter. Fluency in French can provide a career advantage in all types of professions including business, medicine, law, the arts, politics, government work, and more. The country of France is a leader in science and high-tech, architecture, fashion, and cuisine, making French fluency valuable in these industries as well.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of French in order to successfully apply their fluency.
Students are also encouraged to participate in UWM’s study abroad (http://uwm.edu/cie/study-abroad) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

**College of Letters & Science Requirements**

I. **English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

II. **Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.*

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
</tbody>
</table>
**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

**V. Breadth Requirement**

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+), Designation, L&S students must complete the Breadth requirement.

**VI. The Major**

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**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Major Requirements**

Students who wish to become Italian majors may do so once they have completed ITALIAN 104 or equivalent and by registering with the Italian major advisor. To be accepted and to continue as majors, they must maintain at least a 2.500 GPA in all Italian courses attempted at UWM. In addition, the College of Letters and Science requires students to attain a 2.500 GPA in all major credits attempted, including any transfer work.

ITALIAN 213 is recommended for Italian majors and minors. Students also are encouraged to take courses in other literatures and Comparative Literature.

The major in Italian may be completed in one of the following options:

**Option A (Italian)**

Students must complete 24 credits in Italian courses at the 300 level and above, with at least 15 taken in residence at UWM. The credits are distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITALIAN 311</td>
<td>Advanced Conversation and Composition: Contemporary Italian Usage</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 321</td>
<td>Introduction to Italian Literature</td>
<td>3</td>
</tr>
</tbody>
</table>
ITALIAN 322  Introduction to Italian Literature and Film  3
ITALIAN 457  Topics in Italian Literature and Culture in Translation: 1  3
Select 6 additional credits in advanced literature courses  6
Select 6 credits in Italian electives numbered 300 and above  6
Total Credits  24

1 Both options of the major require that students complete a research experience. To fulfill this requirement, students must complete, with a passing grade, ITALIAN 457 (subtitle). Students will conduct independent research related to the general theme of the course, presenting their research in a final 10- to 12-page paper.

Option B (Italian Studies)
At least 15 of the 38 credits must be earned in courses at the 300 level and above taken in residence at UWM. The credits are distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 14 credits of first- and second-year Italian language</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>ITALIAN 258</td>
<td>Contemporary Italian Society and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 457</td>
<td>Topics in Italian Literature and Culture in Translation: 1</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 additional credits in Italian electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 12 additional credits selected from Italian or from the following cross-listed courses: 2</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 333</td>
<td>High Renaissance Art in Italy</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 431</td>
<td>Renaissance Architecture in Italy</td>
<td></td>
</tr>
<tr>
<td>ARTHIST 447</td>
<td>Topics in Early Modern Art: (Women and Art in Italy 1350-1700)</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (Narratives of Shelter in WWII Italy)</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion: (Italians and the Holocaust)</td>
<td></td>
</tr>
<tr>
<td>HIST 325</td>
<td>The Renaissance</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits  38

1 Both options of the major require that students complete a research experience. To fulfill this requirement, students must complete, with a passing grade, ITALIAN 457 (subtitle). Students will conduct independent research related to the general theme of the course, presenting their research in a final 10- to 12-page paper.

2 Please note, the advanced, 300-level Italian language courses ITALIAN 311, ITALIAN 312, ITALIAN 321, and ITALIAN 322 are not sequential, and may be taken in any order, for example ITALIAN 321 before ITALIAN 311.

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Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Program directly, french-italian@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
Italian, Minor

Italy has one of the ten largest economies in the world, and mastering Italian can open up a world of professional and personal opportunities.

Italian has more than 67 million native speakers worldwide. Some 120 million people speak Italian as a second language. In addition to serving as the official language of Italy, Italian is common in 29 countries, such as Switzerland, Germany, Belgium, North Africa, Brazil, Canada, and the United States.

Learning Italian serves as a gateway to a wide variety of career opportunities, in finance, marketing, journalism, translation, and computer programming. Italy is also a leader in the fields of air and water quality control, transportation technology, food and beverage fields, robotics, interior design and fashion.

The courses in the Italian Program are designed to help students become fluent in both the language and culture of Italy. On the very first day of class, students begin speaking Italian, and gain valuable communication skills as they progress through the intermediate and advanced courses. Students may choose from an array of Italian courses on various topics that enable them to understand key turning points in Italian history, society and politics, cultural trends, and movements in such arts as film and literature. Italian courses contribute to such programs as Global Studies and the certificate program in Food Studies.

Students are also encouraged to participate in UWM’s study abroad (http://uwm.edu/cie/study-abroad) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Requirements

At least 9 credits must be taken at the 300 level or above in residence at UWM. The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

The Italian minor requires 18 credits distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITALIAN 311</td>
<td>Advanced Conversation and Composition: Contemporary Italian Usage</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 12 additional credits within the Italian curricular area, including courses in language (beyond the first year), literature, film, culture, and civilization</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>18</td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact the Program directly, french-italian@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/italian/undergraduate/
GEORGEOGRAPHY

Geography is the study of the earth as created by natural forces and modified by human actions. It analyzes spatial patterns and locational associations of human and physical environments. It is concerned with people's interrelationships with their environments now, in the past, and in the future. The Department of Geography includes the Cartography and Geographic Information Science (GIS) Center and works closely with the American Geographical Society Library, one of the largest holdings of geographical materials in the world.

Programs

- Geographic Information Science, Minor (p. 1396)
- Geographic Information Systems, Graduate Certificate (College of Letters and Science) (p. 1403)
- Geography, BA (p. 1399)
- Geography, BS (p. 1403)
- Geography, MA (p. 1407)
- Geography, MA/Library and Information Science, MLIS (p. 1409)
- Geography, Minor (p. 1410)
- Geography, MS (p. 1410)
- Geography, PhD (p. 1413)

Geography Courses

GEOG 105 Introduction to Human Geography
3 cr. Undergraduate.
How humans interact with and alter the Earth through cultural, political, and economic processes; how these processes are dependent on and affect Earth's natural resources. 2 hrs lec, 1 hr dis.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

GEOG 110 The World: Peoples and Regions
3 cr. Undergraduate.
Introduction to regional cultural geography through a study of representative and significant areas of the earth.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

GEOG 114 Geography of Race in the United States
3 cr. Undergraduate.
Contemporary geographic issues of segregation, assimilation, belonging, and exclusion facing African-American, white, Asian, Latino, Native American and either groups in the U.S. 2 hrs lec, 1 hr dis.
Prerequisites: none.
General Education Requirements: CD, SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEOG 115 Globalization and Economic Development
3 cr. Undergraduate.
Geographic perspectives on world economy: geographic organization of contemporary production and consumption around the world; historical development of capitalist economy; economic geography of globalization processes.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2012, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

GEOG 120 Our Physical Environment
3 cr. Undergraduate.
Characteristics and significance of world land form, climate, soils, vegetation, and mineral and water resources. 2 hrs lec, 2 hrs lab/dis.
Prerequisites: none.
Course Rules: Not open for cr to students w/cr in Geog 121(ER), 122(ER).
Required all-day field trip for which fee is assessed.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

GEOG 125 Introduction to Environmental Geography
3 cr. Undergraduate.
Introduction to environmental geography and related environmental problems aimed at understanding of the earth's systems in our daily encounter with them.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

GEOG 128 Introduction to Caves and Caving
3 cr. Undergraduate.
An introduction to the science of speleology, to the underground world of caves, and to the techniques and history of caving.
Prerequisites: none.
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

GEOG 140 Our Urban Environment: Introduction to Urban Geography
3 cr. Undergraduate.
Site and situation, central functions, spatial patterns of socio-economic and demographic characteristics of urban population. Spatial patterns of urban economy.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 193 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule
GEOG 194 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

GEOG 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 213 Geography of Asia
3 cr. Undergraduate.
Population, resources, development, and diversity. Regions discussed are East Asia, Southeast Asia, South Asia, and Central Asia.
Prerequisites: soph st.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

GEOG 214 Wisconsin
3 cr. Undergraduate.
Regional examination of physical features, resources, people, land utilization, and economic development.
Prerequisites: soph st.
Current Offerings: http://uwm.edu/schedule

GEOG 215 Introduction to Geographic Information Science
3 cr. Undergraduate.
Geographic objects, their representation and analysis. Topics include special nature of spatial data; concepts of space, mapping, spatial relationships; and use of geographic information systems. 2 hrs lec, 2 hrs lab.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

GEOG 216 Geography of the United States and Canada
3 cr. Undergraduate.
Physical features, resources, peoples, and utilization and economic development of the United States and Canada.
Prerequisites: soph st.
Current Offerings: http://uwm.edu/schedule

GEOG 225 The Language of Maps
3 cr. Undergraduate.
Maps as a visual language. An introduction to their making, conventions, distortions, use, and significance in society. Historical examples.
Prerequisites: soph st.
Current Offerings: http://uwm.edu/schedule

GEOG 231 Muslim Geographies: Identities and Politics
3 cr. Undergraduate.
Origin and main features of Islam and the diversity of Muslim cultures in various geographical, social, cultural, and political contexts.
Prerequisites: none.
General Education Requirements: SS, SS
Last Taught: Spring 2017, Fall 2015, Fall 2014, Spring 2013.
Current Offerings: http://uwm.edu/schedule

GEOG 247 Quantitative Analysis in Geography
3 cr. Undergraduate.
Application of quantitative measures to geographic problems. Topics include descriptive statistics, statistical inference, and bivariate relationships. 2 hrs lec, 2 hrs lab.
Prerequisites: Math 105(P).
General Education Requirements: QLB
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 253 Austria: The Second German State
1 cr. Undergraduate.
Lands and people of Austria; climate, soils, and mineral resources; settlements and economy; the role of Austria today.
Prerequisites: soph st.
Current Offerings: http://uwm.edu/schedule

GEOG 261 Africa: Topical Analysis
3 cr. Undergraduate.
Countries south of the Sahara.
Prerequisites: soph st.
Current Offerings: http://uwm.edu/schedule

GEOG 289 Internship in Geography, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of geography in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Geog; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance into UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Last Taught: Fall 2005.
Current Offerings: http://uwm.edu/schedule
GEOG 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

GEOG 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

GEOG 304 Human Impact on the Environment
3 cr. Undergraduate.
Geographical and temporal distribution of human effects on land and
resources; historical background of human concern for deleterious
effects of impacts on environments.
Prerequisites: jr st; intro course in Geog or a life sci recom.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

GEOG 306 Natural Hazards
3 cr. Undergraduate.
An introduction to processes and conditions responsible for natural
hazards, reasons for geographic patterns of hazards’ occurrence, and
modes of adjustment to natural hazards.
Prerequisites: jr st; a physical geog course recom.
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEOG 309 Nationalities and Nations of the World
3 cr. Undergraduate.
Nationalities, nations and changing borders of countries. Emigration and
immigration. Cultural diffusion, languages and folk and popular culture.
Prerequisites: jr st; 100-level course in Geog or Ethnic recom.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 310 General Climatology
3 cr. Undergraduate.
Global patterns of climate and the processes that shape them. Climatic
elements, upper-atmospheric waves, internet data, Midwest climate,
climate classification, and climate change.
Prerequisites: jr st; Geog 120(R), Atm Sci 100(R), or Atm Sci 240(R).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 311 Environmental Analysis
3 cr. Undergraduate.
Use of aerial photographs and digital imagery in environmental analysis,
including urban areas. 3 hrs lec; 2 hrs lab. PC/Windows familiarity recom.
Prerequisites: jr st & Geog 215(P).
Current Offerings: http://uwm.edu/schedule

GEOG 313 Advanced GIS
4 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

GEOG 314 Conservation of Natural Resources
3 cr. Undergraduate.
Analysis of environmental ethics; the positive and negative
consequences of resource development with emphasis on strategies
designed to resolve environmental conflicts.
Prerequisites: jr st or a geog course.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

GEOG 315 Cultural Diffusion
3 cr. Undergraduate.
Cultural diffusion, languages and folk and popular culture.
Prerequisites: jr st; Geog 105(P), 110(P), 114(P), or 140(P).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

GEOG 330 Europe: East and West
3 cr. Undergraduate.
Europe’s lands and peoples, physical and cultural diversities and
similarities.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

GEOG 332 China: Peoples, Regions, and Development
3 cr. Undergraduate.
Geographic examination and explanation of change in China, including
population, resources, development processes, environment, diverse
cities and regions, and integration into the global economy.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

GEOG 340 Biogeography
3 cr. Undergraduate.
An introduction to the geography of the biosphere, the earth's surface,
and the plants and animals which live there.
Prerequisites: jr st; a physical geog or a biology course recom.
Last Taught: Spring 2018, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 350 Conservation of Natural Resources
3 cr. Undergraduate.
Analysis of environmental ethics; the positive and negative
consequences of resource development with emphasis on strategies
designed to resolve environmental conflicts.
Prerequisites: jr st or a geog course.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

GEOG 351 Population, Environment, Development
3 cr. Undergraduate/Graduate.
Population processes and policies in different geographical contexts:
fertility, mortality, migration, and policies affecting these; population-
environment relations; interactions of population and economic
development.
Prerequisites: jr st; Geog 120(R), Atm Sci 100(R), or Atm Sci 240(R).
Current Offerings: http://uwm.edu/schedule

GEOG 381 Honors Seminar:
3 cr. Undergraduate.
Selected topics in geography.
Prerequisites: soph st; Honors200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

GEOG 400 Population, Environment, Development
3 cr. Undergraduate/Graduate.
Population processes and policies in different geographical contexts:
fertility, mortality, migration, and policies affecting these; population-
environment relations; interactions of population and economic
development.
Prerequisites: jr st; Geog 120(R), Atm Sci 100(R), or Atm Sci 240(R).
Current Offerings: http://uwm.edu/schedule

GEOG 403 Remote Sensing: Environmental and Land Use Analysis
4 cr. Undergraduate.
Use of aerial photographs and digital imagery in environmental and land
use analysis, including urban areas. 3 hrs lec; 2 hrs lab. PC/Windows
familiarity recom.
Prerequisites: jr st & Geog 215(P).
Current Offerings: http://uwm.edu/schedule
GEOG 405 Cartography
4 cr. Undergraduate.
Thematic cartography; map communication, design principles, illustration and mapping software. 3 hrs lec, 2 hrs lab.
Prerequisites: jr st & Geog 215(P).
Current Offerings: http://uwm.edu/schedule

GEOG 410 Gendered Geographies
3 cr. Undergraduate/Graduate.
Various ways feminist geographers have analyzed gender in relation to phenomena such as the body, home, work, the nation, colonization, and globalization.
Prerequisites: jr st & one of Geog 105(P) or 110(P) or Wmns 200(P) or 201(P) or equiv, or grad st.
Current Offerings: http://uwm.edu/schedule

GEOG 411 Physical Climatology
3 cr. Undergraduate/Graduate.
Analyzing climatic processes at the microclimate scale. Budgets of radiation, energy, water, and momentum at the earth's surface, sensible-latent heat, and soil-plant-atmosphere interactions.
Prerequisites: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R), or grad st.
Last Taught: Fall 2006, Fall 2003.
Current Offerings: http://uwm.edu/schedule

GEOG 415 Hydrogeography
3 cr. Undergraduate/Graduate.
Role of water in geographic systems. Interaction of water with physical and human systems, key hydrological processes, spatial and temporal variations of water, data collection, modeling.
Prerequisites: jr st, Geog 120(P) or 125(P), & Geog 215(P); or grad st.
Last Taught: Fall 2015, Fall 2013, Spring 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

GEOG 420 Methods and Principles in Land Form Geography
3 cr. Undergraduate/Graduate.
Geographic qualitative and quantitative methods in land form analysis and principles of landscape evolution.
Prerequisites: jr st & Geog 120(P) or 121(P) or Geo Sci 100(P).
Current Offerings: http://uwm.edu/schedule

GEOG 421 Geography of Latin America
3 cr. Undergraduate/Graduate.
Topical and regional analysis of physical features, discovery and exploration, processes of settlement, evolution of the landscape, and problems of development through modern times.
Prerequisites: jr st & Geog 110(P) or 120(P) or 125(P); or grad st.
Current Offerings: http://uwm.edu/schedule

GEOG 424 Karst Geomorphology
3 cr. Undergraduate/Graduate.
Description and analysis of karst (limestone) processes and landforms.
Prerequisites: jr st, Geog 004(P), 120(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

GEOG 430 Geography of Transportation
3 cr. Undergraduate.
Geographic analysis of transportation, with emphasis on commodity flows and traffic patterns.
Prerequisites: jr st, Geog 115(P).
Current Offerings: http://uwm.edu/schedule

GEOG 437 Qualitative Methods in Geography
3 cr. Undergraduate.
Research design, interview, focus group, ethnography, survey, and discourse analysis; epistemological debates and the methodological and ethical issues that arise throughout the research process.
Prerequisites: jr st; Geog 105(P), 110(P), 114(P), or 140(P).
Current Offerings: http://uwm.edu/schedule

GEOG 441 Geography of Cities and Metropolitan Areas
3 cr. Undergraduate/Graduate.
Extent, localization, and geographic relations of land uses, facilities, and internal circulation, with particular reference to large North American cities.
Prerequisites: jr st & intro course in geog or acceptable course in an urban related field, e.g. Econ, UrbPlan, Urb Std; or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 443 Cities of the World: Comparative Urban Geography
3 cr. Undergraduate/Graduate.
Geographic analysis of world urban systems with emphasis on the cultural traditions, form, function and socio-economic development of cities.
Prerequisites: jr st & Geog 110(P), 115(P), or 140(P).
Current Offerings: http://uwm.edu/schedule

GEOG 450 Climates of the Past and Climate Change
3 cr. Undergraduate/Graduate.
Climatic history of the earth and climate models. Milankovitch theory, quaternary climates, temporal-spatial scales of change, general circulation, and earth system models.
Prerequisites: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R), or grad st.
Current Offerings: http://uwm.edu/schedule

GEOG 455 Applied Climatology
3 cr. Undergraduate.
Applications of climate processes and data. Solar energy, wind energy, food production, water usage, building design, urban environments, ecological assessment, and land form development.
Prerequisites: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.
Current Offerings: http://uwm.edu/schedule
Geography

GEOG 462 Cultural Geography of Latin America
3 cr. Undergraduate/Graduate.
Development of cultural landscapes, with emphasis on land use and environmental change resulting from European introductions; historical explanation of modern landscapes and environmental problems.
Prerequisites: jr st; one of Geog 105(P), 110(P), 421(P), 422(P), Hist 180(P), 388(P), 389(P), or 390(P).
Current Offerings: http://uwm.edu/schedule

GEOG 464 Environmental Problems
3 cr. Undergraduate/Graduate.
General discussion and case studies of geographical contexts and historical roots of modern environmental problems. History of human concern over adverse environmental impacts.
Prerequisites: jr st & an intro course in a life science or environmental science.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEOG 470 Geography of South Asia
3 cr. Undergraduate/Graduate.
Survey of the historical, cultural and economic geography of South Asia, including India and adjacent countries.
Prerequisites: jr st; intro Geog, Anthro, or Econ course.
Current Offerings: http://uwm.edu/schedule

GEOG 475 Geography of Soils
3 cr. Undergraduate/Graduate.
Systematic and regional study of soils, interrelationships of soils with the physical and cultural landscape. 2 hrs lec, 2 hrs lab.
Prerequisites: jr st; Geog 120(P), 121(P), or 125(P) or equiv.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 489 Internship in Geography, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of geography in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Geog; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 496 UROP Apprenticeship, Upper Level
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP.
Course Rules: May be retaken to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2017, Summer 2016, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 1999.
Current Offerings: http://uwm.edu/schedule

GEOG 515 Watershed Analysis and Modeling
3 cr. Undergraduate.
Theories and applications of analytical and modeling techniques for watershed processes, including geographic information systems (GIS), statistics, and computer simulations.
Prerequisites: jr st; working knowledge of GIS; Geog 415(R) or Geo Sci 463(R) or 562(R).
Last Taught: Fall 2016, Spring 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 520 Physical Geography of the City
3 cr. Undergraduate/Graduate.
Spatial aspects and interactions of plants, animals, climate, soils, and water resources relevant to human activities in the urban environment.
Prerequisites: jr st & Geog 120(P) or 125(P); or grad st.
Last Taught: Spring 2013, Fall 2010, Fall 2008, Spring 2006.
Current Offerings: http://uwm.edu/schedule

GEOG 525 Geographic Information Science
4 cr. Undergraduate.
Geographic and information theoretical foundations of geographic information science (GIS). Use of macro languages in a software project to expand GIS functionality. 3 hrs lec, 2 hrs lab.
Prerequisites: jr st, & Geog 215(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEOG 531 Insurgent Cities - Global Geographies of Urban Social Movements
3 cr. Undergraduate.
Current and past social movements, activism, resistance, and revolution and their multiscalar geographies, from the urban, to the national, to the global.
Prerequisites: jr st.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule
GEOG 540 Globalization and the City
3 cr. Undergraduate/Graduate.
Spatial aspects of globalization and their impact on the city. Topics include emergence of global cities, impacts on urban development, and global urban strategies.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

GEOG 547 Spatial Analysis
4 cr. Undergraduate.
Advanced analysis techniques, including multivariate relationships and spatial modeling.
Prerequisites: jr st; Geog 247(P) or dept-approved equiv.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 564 Urban Environmental Change and Social Justice
3 cr. Undergraduate/Graduate.
Spatial aspects of contributors to urban environmental change affecting social justice. Inequitable distribution of environmental risks and benefits; challenge of developing policies.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

GEOG 600 Perspectives on Geography
3 cr. Undergraduate.
Seminar on concepts, methods, and approaches to geographic inquiry. Discussion of professional geographic materials, bibliographic procedures and methodologies.
Prerequisites: sr st; declared geography major; writ cons instr.
Current Offerings: http://uwm.edu/schedule

GEOG 625 Intermediate Geographic Information Science
4 cr. Undergraduate.
Concepts and techniques of geographic information science (GIS), with emphasis on GIS-based spatial analysis, associated applications, and technology. 3 hrs lec, 2 hrs lab.
Prerequisites: jr st; Geog 525(P) or UrbPlan 591(P) or 791(P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 647 ArcGIS Programming with Python
4 cr. Undergraduate.
Fundamentals of Python programming language; focus on programming designed to automate ArcGIS geoprocessing tasks, manipulate spatial data (including geometries and rasters), and create customized tools.
Prerequisites: jr st; C+ or better in Geog 525(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

GEOG 650 Geography Field Work
3 cr. Undergraduate/Graduate.
Geographic field techniques and field problems; classroom preparations and field projects.
Prerequisites: jr st; writ cons instr.
Course Rules: Students will pay fieldwork expenses. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 654 Tropical Field Course:
3 cr. Undergraduate/Graduate.
Study of geographic field problems and techniques in the tropics. Classroom preparations, field projects and field trip to the tropics.
Prerequisites: jr st; writ cons instr.
Course Rules: Students will pay field trip expenses. May be retaken for cr w/chg of field topic & site to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 696 Independent Work in Physical Geography
1-3 cr. Undergraduate.
Independent reading or project on a physical geography topic under the supervision of a geography faculty member.
Prerequisites: jr st; 2.5 GPA; writ cons instr & dept chair.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 699 Independent Work
1-3 cr. Undergraduate.
Independent reading or project. See Advanced Independent Study.
Prerequisites: jr st, 2.5 gpa, & writ cons instr & dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 704 Remote Sensing: Environmental and Land Use Analysis
4 cr. Graduate.
Use of aerial photographs and digital imagery in environmental and land use analysis, including urban areas. 3 hrs lec; 2 hrs lab
Prerequisites: PC/Windows familiarity recom.
Current Offerings: http://uwm.edu/schedule

GEOG 705 Cartography
4 cr. Graduate.
Thematic cartography; map communication, design principles, illustration and mapping software. 3 hrs lec; 2 hrs lab.
Prerequisites: grad st.
Course Rules: Counts as repeat of Geog 405. Not open for cr to students w/grad cr in Geog 405.
Current Offerings: http://uwm.edu/schedule

GEOG 716 Watershed Analysis and Modeling
3 cr. Graduate.
Theories and applications of analytical and modeling techniques for watershed processes, including geographic information systems (GIS), statistics, and computer simulations.
Prerequisites: grad st; working knowledge of GIS.
Course Rules: Not open for cr to students w/grad cr in Geog 515.
Current Offerings: http://uwm.edu/schedule
GEOG 726 Geographic Information Science
4 cr. Graduate.
Geographic and information theoretical foundations of geographic information science (GIS). Use of macro languages in a software project to expand GIS functionality. 3 hrs lec, 2 hrs lab.

Prerequisites: grad st.
Course Rules: Not open for cr to students w/ grad cr in Geog 525.
Current Offerings: http://uwm.edu/schedule

GEOG 730 Geography of Transportation
3 cr. Graduate.
Geographic analysis of transportation, with emphasis on commodity flows and traffic patterns.

Prerequisites: grad st.
Course Rules: Not open for cr to students w/ grad cr in Geog 430.
Current Offerings: http://uwm.edu/schedule

GEOG 731 Insurgent Cities - Theorizing geographies of social movements
3 cr. Graduate.
Investigation into how social movements use and produce various spatialities, in relation to state forms, other social movements and forces, media assemblages, the built environment

Prerequisites: grad st.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

GEOG 742 Urban and Regional Dimensions of Globalization
3 cr. Graduate.
Geographic perspectives on urban and regional change as 'developed' and 'less developed' parts of the world become more interconnected by wider international processes of change.

Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

GEOG 744 Cities, Regions, and Globalization
3 cr. Graduate.
Globalization process and impact on cities and regions, including emergence of global cities and regions, impact on uneven development, and global era urban strategies.

Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

GEOG 747 Spatial Analysis
4 cr. Graduate.
Advanced analysis techniques, including multivariate relationships and spatial modeling.

Prerequisites: grad st
Course Rules: Not open for cr to students w/ grad cr in Geog 547.
Current Offerings: http://uwm.edu/schedule

GEOG 748 ArcGIS Programming with Python
4 cr. Graduate.
Fundamentals of Python programming language; focus on programming designed to automate ArcGIS geoprocessing tasks, manipulate spatial data (including geometries and rasters), and create customized tools.

Prerequisites: grad st; Geog 726(P).
Course Rules: Not open for cr to students w/ grad cr in Geog 647.
Current Offerings: http://uwm.edu/schedule

GEOG 798 GIS/Cartography Internship
1-4 cr. Graduate.
Practical GIS/cartography experience with government agency or private firm under supervision of working expert and faculty member. Intern's contract specifies duties and duration.

Prerequisites: grad st; writ cons instr & dept chair
Course Rules: May be retaken to 8 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 804 Advanced Remote Sensing
3 cr. Graduate.
Advanced techniques of image processing and analysis, including classification, georegistration, and spatial modeling.

Prerequisites: grad st; Geog 704(P)
Course Rules: Counts as a repeat of Geog 703.
Current Offerings: http://uwm.edu/schedule

GEOG 810 Introduction to Techniques of Research and Presentation
3 cr. Graduate.
Proseminar on the scholarly use of materials in all aspects of geography; training for effective presentation in both written and oral form.

Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

GEOG 826 Intermediate Geographic Information Science
4 cr. Graduate.
Concepts and techniques of geographic information science (GIS), with emphasis on GIS-based spatial analysis, associated applications, and technology. 3 hrs lec, 2 hrs lab.

Prerequisites: grad st; Geog 525(P) or Geog 726(P) or UrbPlan 591(P) or UrbPlan 791(P).
Course Rules: Counts as a repeat of Geog 625. Not open for cr to students w/grad cr in Geog 625.
Current Offerings: http://uwm.edu/schedule

GEOG 827 Qualitative Research
3 cr. Graduate.
Qualitative research as applied in geography, including the relationship between quantitative and qualitative approaches, issues of interpretation, and ethics of field work.

Prerequisites: grad st.
Last Taught: Spring 2017, Spring 2015, Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GEOG 834 GIS and Society
3 cr. Graduate.
Interconnected relationship between Geographic Information Science (GIS) and society, including hidden impacts and implications of such a relationship.

Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

GEOG 870 Contemporary Geographic Approaches
3 cr. Graduate.
Foundations of geographic inquiry, with emphasis on the roles of subdisciplines, and generalist/specialist approaches in the development of geographic science.

Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule
GEOG 880 Urban Sustainability
3 cr. Graduate.
Urban sustainable challenges and opportunities that impact the built environment. Includes review of traditional and innovative sustainable practices and regulations
Prerequisites: grad st.
Course Rules: Jointly-offered w/ Urb Plan 880.
Current Offerings: http://uwm.edu/schedule

GEOG 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: grad st.
Course Rules: Fee assessed for 1 cr.
Last Taught: Summer 2015, Summer 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

GEOG 889 Internship in Geography
1-6 cr. Graduate.
Application of advanced principles of geography in a business, organizational, educational, political, or other appropriate setting. Intern's contract specifies duties and duration.
Prerequisites: grad st; Geog 810(P); writ cons instr & dept chair.
Course Rules: Retakable to 6 cr max.
Last Taught: Spring 2015, Fall 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

GEOG 890 Research and Master Thesis
1-6 cr. Graduate.
Research connected with master thesis.
Prerequisites: grad st.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 904 Remote Sensing and Urban Analysis
3 cr. Graduate.
Seminar in remote sensing technologies and applications in urban analyses, including land use/land cover analysis, socio-economic information estimation, heat-island effect, sprawl monitoring, and growth modeling.
Prerequisites: grad st; Geog 403(P) or Geog 704(P); Geog 525(P) or Geog 726(P) or UrbPlan 591(P) or 791(P).
Last Taught: Fall 2015, Spring 2012.
Current Offerings: http://uwm.edu/schedule

GEOG 905 Seminar: Selected Topics in Geography
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/topic chg to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

GEOG 910 Techniques of Research and Presentation
3 cr. Graduate.
Seminar on theoretical and practical aspects of geographic research, funding, presentation, and publication.
Prerequisites: grad st in Geog Ph.D. program.
Last Taught: Fall 2017, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

GEOG 926 Advanced Geographic Information Science: Geographic Modeling
3 cr. Graduate.
Advanced spatial modeling with both GIS and other tools of geocomputation, including examination of conceptual models aimed at an analysis of their possible implementation.
Prerequisites: grad st; Geog 826(P).
Course Rules: Counts as a repeat of Geog 725.
Current Offerings: http://uwm.edu/schedule

GEOG 932 Seminar: Economic Geography:
3 cr. Graduate.
Analysis in depth of significant topics in advanced economic geography specializations: agricultural geography, geography of manufacturing, and geography of transportation.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 934 Seminar: Urban Geography:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 940 Seminar: Physical Geography:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 941 Seminar: Climatology:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 942 Seminar: Geography of Land Form:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEOG 945 The Internal Structure of the City
3 cr. Graduate.
The interaction of forces responsible for the evolution of the city as a spatial form and the allocation of economic and social activity within the spatial configuration.
Prerequisites: grad st.
Course Rules: Geog 945 & Urb Std 945 are jointly-offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule
Geographic Information Science, Minor

The Geographic Information Science (GIS) minor is available to students who want to learn GIS without majoring in geography. GIS refers to working with spatial data, which is useful in many fields, including urban planning, environmental analysis, cartography, retail and real estate, health, and military intelligence.

Requirements

The GIS minor requires the completion of a minimum of 18 credits, at least 9 of them at the 300 level or above taken in residence at UWM. The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>8</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

Contact Information

Current Students contact Associate Professor Kristin Sziarto at sziarto@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/geography/undergraduate/minor-in-gis/

Geographic Information Systems, Graduate Certificate (College of Letters and Science)

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

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

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

Application Deadlines
If at any time you are unsure about a published date or deadline (http:// uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/ contact-us) online.

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Tier 1 (select one course)</td>
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</tr>
<tr>
<td>GEOG 726</td>
<td>Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td>3</td>
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<tr>
<td>Tier 2 (select one course)</td>
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<tr>
<td>GEOG 826</td>
<td>Intermediate Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 792</td>
<td>Using Urban Geographic Information Systems (GIS) for Planning</td>
<td>3</td>
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<tr>
<td>Tier 3 (Select two courses)</td>
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<tr>
<td>GEOG 704</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 705</td>
<td>Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 748</td>
<td>ArcGIS Programming with Python</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 834</td>
<td>GIS and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 960</td>
<td>Seminar: Geographic Techniques:</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 793</td>
<td>Applied Projects in Urban Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 794</td>
<td>Internet Geographic Information Systems (GIS)</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 749</td>
<td>Data and Information Management</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
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<td>6</td>
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<tr>
<td>Select two courses from the list below</td>
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</tr>
<tr>
<td>GEOG 704</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td></td>
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<td>GEOG 960</td>
<td>Seminar: Geographic Techniques:</td>
<td></td>
</tr>
<tr>
<td>GEOG 999</td>
<td>Independent Work</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 692</td>
<td>Special Topics in Urban Planning:</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td></td>
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<tr>
<td>URBPLAN 991</td>
<td>Legislative/Administrative Agency Internship</td>
<td></td>
</tr>
<tr>
<td>URBPLAN 999</td>
<td>Independent Study</td>
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</tr>
<tr>
<td>ANTHRO 380</td>
<td>Anthropological Applications of GIS</td>
<td></td>
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<tr>
<td>ANTHRO 562</td>
<td>Techniques and Problems in Archaeology</td>
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<tr>
<td>ANTHRO 768</td>
<td>Topics in Advanced Research Design in Anthropology</td>
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<td>BUS ADM 749</td>
<td>Data and Information Management</td>
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</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
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### Electives

<table>
<thead>
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<th>Credits</th>
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<tbody>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis (if not selected above)</td>
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<tr>
<td>GEOG 405</td>
<td>Cartography (if not selected above)</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 515</td>
<td>Watershed Analysis and Modeling</td>
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<tr>
<td>GEOG 525</td>
<td>Geographic Information Science (if not selected above)</td>
<td>4</td>
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<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td>4</td>
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<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science (if not selected above)</td>
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<tr>
<td>GEOG 647</td>
<td>ArcGIS Programming with Python (if not selected above)</td>
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<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>1-6</td>
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<td>GEOG 804</td>
<td>Advanced Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
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<td>GIS and Society</td>
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<td>GEOG 904</td>
<td>Remote Sensing and Urban Analysis</td>
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<tr>
<td>GEOG 960</td>
<td>Seminar: Geographic Techniques: (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 999</td>
<td>Independent Work (with appropriate topic)</td>
<td>1-6</td>
</tr>
<tr>
<td>URBPLAN 692</td>
<td>Special Topics in Urban Planning: (&quot;Transportation Planning and GIS&quot; subtitle)</td>
<td>1-3</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning (if not selected above)</td>
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<td>Applied Projects in Urban Geographic Information Systems (if not selected above)</td>
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<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
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</tr>
</tbody>
</table>

Total Credits: 18

Other courses as approved by the GIS Certificate Advisory Committee chairperson

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

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. To be eligible for transfer, the course must have been completed within the last 2 years. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

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

### Articulation with Degree Programs

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

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

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

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

### Gainful Employment Disclosure Information

- UWM Financial Aid Gainful Employment (http://uwm.edu/financialaid/apply-for-aid/eligibility/non-degree-students/#primary)
• Gainful Employment Disclosure Information (http://www4.uwm.edu/LS/ge-dis/gis/45.0702-Gedt.html)

Geography, BA

In high school, your Geography class probably focused on maps and locations. But, the field is so much broader than that. Geography bridges the physical and human world, using scientific methods to explain and predict people’s impact on the planet and the planet’s impact on people.

UWM’s Geography students graduate with an exceptional ability to intellectually and technologically process spatial data about space, place, and people and how they relate to each other. They understand how to make sense of seemingly unrelated pieces of information by bringing together facts and diverse values. They also are adept at presenting information visually - for example, maps!

Some examples of research topics being tackled by today’s geographers include climate change, population shifts, land use patterns, and animal migration. These are all examples of how geographers focus on human’s relationship with man-made and natural environments.

Geographic Information Science (GIS) is a growing specialty within geography. GIS is a technology-based system for capturing, storing, and checking different types of data in relation to its position on Earth. It is a tool that enhances decision-making in both the private and public sector. For example, a rural town in the Rocky Mountains may use GIS data to determine where and when to place fire stations and personnel based on the patterns of forest fires and permanent and tourist populations. A corporation may use GIS to plan the location and layout of a new store based on shopping and traffic patterns.

At UWM, students can focus on GIS within the major, or choose another specialty track: urban geography with a focus on cities; environmental geography for those interested in natural resources; or physical systems with an emphasis on the natural features of earth such as climate, soil, and plants. Or, students can take the broad major and explore a little bit of each of these areas.

Related Programs

For the teaching major and minor, see the School of Education (p. 426) section of this catalog. A related special major is International Studies (p. 1490). Related certificate programs include Asian Studies (p. 1052), Latin American, Caribbean, and U.S. Latin@ Studies (p. 1550), and Middle Eastern and North African Studies (p. 1636).

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:
1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.*

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

*Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.*

### III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Complete 12 credits of L&amp;S Courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

### V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.
VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Geography Major Requirements
Students must meet with the department’s undergraduate advisor to declare geography as a major. All majors must complete the 24- or 25-credit core curriculum and the additional requirements as defined in one of the five tracks:

1. Geographic Information
2. Urban
3. Environmental
4. Physical Systems
5. Globalization and Development

Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. The physical systems track is recommended for Bachelor of Science students. In satisfying their major requirements, all students must complete at least 37 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the GPA. Majors must have a 2.500 GPA in all geography credits attempted at UWM. In addition, students must attain a 2.500 GPA in all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Introduction to Human Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td></td>
</tr>
<tr>
<td>GEOG 114</td>
<td>Geography of Race in the United States</td>
<td></td>
</tr>
<tr>
<td>GEOG 140</td>
<td>Our Urban Environment: Introduction to Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 120</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 125</td>
<td>Introduction to Environmental Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 115</td>
<td>Globalization and Economic Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
<td></td>
</tr>
<tr>
<td>GEOG 214</td>
<td>Wisconsin</td>
<td></td>
</tr>
<tr>
<td>GEOG 216</td>
<td>Geography of the United States and Canada</td>
<td></td>
</tr>
<tr>
<td>GEOG 231</td>
<td>Muslim Geographies: Identities and Politics, Geography of Islam</td>
<td></td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
<td></td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td></td>
</tr>
<tr>
<td>GEOG 400</td>
<td>Population, Environment, Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 410</td>
<td>Georelated Geographies</td>
<td></td>
</tr>
<tr>
<td>GEOG 421</td>
<td>Geography of Latin America</td>
<td></td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td></td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 437</td>
<td>Qualitative Methods in Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 600</td>
<td>Perspectives on Geography (satisfies L&amp;S research requirement)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 650</td>
<td>Geography Field Work</td>
<td></td>
</tr>
<tr>
<td>GEOG 654</td>
<td>Tropical Field Course</td>
<td></td>
</tr>
<tr>
<td>GEOG 489</td>
<td>Internship in Geography, Upper Division</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 497</td>
<td>Study Abroad:</td>
<td></td>
</tr>
<tr>
<td>GEOG 489</td>
<td>Internship in Geography, Upper Division</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>3</td>
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</tbody>
</table>

Select one of the following:

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two upper-level techniques courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 626</td>
<td>Advanced Geographic Information Science</td>
<td></td>
</tr>
</tbody>
</table>

Select two upper-level techniques courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 626</td>
<td>Advanced Geographic Information Science</td>
<td></td>
</tr>
</tbody>
</table>

Select two upper-level techniques courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 626</td>
<td>Advanced Geographic Information Science</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td></td>
</tr>
</tbody>
</table>

1 Students in the Urban Track are required to take GEOG 140.
2 Students in the Physical Systems Track must take GEOG 120; those in the Environmental Track must take GEOG 125.
3 Students in the Geographic Information Track must take GEOG 525.
4 With approval of the full department faculty before enrolling, students also can fulfill this requirement by completing a minimum of 90 hours of field research in one of the following courses: GEOG 489 or GEOG 497.
### Geography, BA

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td></td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 9

### Environmental Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td></td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td></td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 9

### Physical Systems Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 310</td>
<td>General Climatology</td>
<td></td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Biogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Hydrogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Methods and Principles in Land Form Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 424</td>
<td>Karst Geomorphology</td>
<td></td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select 6 credits 1

**Total Credits** 15

1. Any two upper-division (numbered 300 or above) courses approved for natural science credit that have not been selected to fulfill the above requirements. A maximum of 3 credits from outside Geography may be applied to the major.

### Globalization and Development Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 115</td>
<td>Globalization and Economic Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following in regional or world geography 1,2,3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
<td></td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td></td>
</tr>
<tr>
<td>GEOG 421</td>
<td>Geography of Latin America</td>
<td></td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td></td>
</tr>
</tbody>
</table>

**Regional**: 3

**World**: 3

### Cross-listed Courses

The following courses offered by the Department of Geosciences may be used to fulfill the requirements of the undergraduate major or minor in geography.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 401</td>
<td>General Soil Science</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td></td>
</tr>
</tbody>
</table>

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http://uwm.edu/geography/undergraduate/

Geography, BS
In high school, your Geography class probably focused on maps and locations. But, the field is so much broader than that. Geography bridges the physical and human world, using scientific methods to explain and predict people’s impact on the planet and the planet’s impact on people.

UWM’s Geography students graduate with an exceptional ability to intellectually and technologically process spatial data about space, place, and people and how they relate to each other. They understand how to make sense of seemingly unrelated pieces of information by bringing together facts and diverse values. They also are adept at presenting information visually - for example, maps!

Some examples of research topics being tackled by today’s geographers include climate change, population shifts, land use patterns, and animal migration. These are all examples of how geographers focus on human’s relationship with man-made and natural environments.

Geographic Information Science (GIS) is a growing specialty within geography. GIS is a technology-based system for capturing, storing, and checking different types of data in relation to its position on Earth. It is a tool that enhances decision-making in both the private and public sector. For example, a rural town in the Rocky Mountains may use GIS data to determine where and when to place fire stations and personnel based on the patterns of forest fires and permanent and tourist populations. A corporation may use GIS to plan the location and layout of a new store based on shopping and traffic patterns.

At UWM, students can focus on GIS within the major, or choose another specialty track: urban geography with a focus on cities; environmental geography for those interested in natural resources; or physical systems with an emphasis on the natural features of earth such as climate, soil, and plants. Or, students can take the broad major and explore a little bit of each of these areas.

Related Programs
For the teaching major and minor, see the School of Education (p. 426) section of this catalog. A related special major is International Studies (p. 1490). Related certificate programs include Asian Studies (p. 1052), Latin American, Caribbean, and U.S. Latin@ Studies (p. 1550), and Middle Eastern and North African Studies (p. 1636).

Requirements
Course of Study – Bachelor of Science Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
</tbody>
</table>
### College of Letters & Science Requirements

#### I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

#### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

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<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
</tbody>
</table>

#### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required. Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-9</td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td>1-9</td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+/-) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Complete 3 credits</td>
<td></td>
</tr>
<tr>
<td>HUMN 211</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
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<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
</tbody>
</table>
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas.*

Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement.
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Geography Major Requirements
Students must meet with the department’s undergraduate advisor to declare geography as a major. All majors must complete the 24- or 25-credit core curriculum and the additional requirements as defined in one of the five tracks:

1. Geographic Information
2. Urban
3. Environmental
4. Physical Systems
5. Globalization and Development

Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. The physical systems track is recommended for Bachelor of Science students. In satisfying their major requirements, all students must complete at least 37 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the GPA. Majors must have a 2.500 GPA in all geography credits attempted at UWM. In addition, students must attain a 2.500 GPA in all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Introduction to Human Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

GEOG 110 The World: Peoples and Regions
GEOG 114 Geography of Race in the United States
GEOG 140 Our Urban Environment: Introduction to Urban Geography
GEOG 120 or GEOG 125 Our Physical Environment Introduction to Environmental Geography

Select one of the following: 3

GEOG 115 Globalization and Economic Development
GEOG 213 Geography of Asia
GEOG 214 Wisconsin
GEOG 216 Geography of the United States and Canada
GEOG 231 Muslim Geographies: Identities and Politics, Geography of Islam
GEOG 309 Nationalities and Nations of the World
GEOG 330 Europe: East and West
GEOG 400 Population, Environment, Development
GEOG 410 Gendered Geographies
GEOG 421 Geography of Latin America
GEOG 470 Geography of South Asia
GEOG 215 Introduction to Geographic Information Science
GEOG 247 Quantitative Analysis in Geography

Select one of the following: 3-4

GEOG 403 Remote Sensing: Environmental and Land Use Analysis
GEOG 405 Cartography
GEOG 437 Qualitative Methods in Geography
GEOG 525 Geographic Information Science
GEOG 547 Spatial Analysis
GEOG 600 Perspectives on Geography (satisfies L&S research requirement)

Select one of the following: 3

GEOG 650 Geography Field Work
GEOG 654 Tropical Field Course:
GEOG 489 Internship in Geography, Upper Division
GEOG 497 Study Abroad:

Major Tracks
Select a Major Track: 9-15
Total Credits: 33-40

1 Students in the Urban Track are required to take GEOG 140.
2 Students in the Physical Systems Track must take GEOG 120; those in the Environmental Track must take GEOG 125.
3 Students in the Geographic Information Track must take GEOG 525.
4 With approval of the full department faculty before enrolling, students also can fulfill this requirement by completing a minimum of 90 hours of field research in one of the following courses: GEOG 489 or GEOG 497.
### Major Tracks

#### Geographic Information Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 698</td>
<td>GIS/Cartography Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two upper-level techniques courses \(^1\) 7-8

Total Credits 14-15

\(^1\) In addition to GEOG 525, listed in requirement of the core curriculum, (7-8 cr. beyond core)

#### Urban Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td></td>
</tr>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td></td>
</tr>
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</table>

Select one of the following: 3

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</tr>
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<tbody>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td></td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 9

### Environmental Track

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td></td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td></td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td></td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td></td>
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</tbody>
</table>

Total Credits 9

### Physical Systems Track

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>GEOG 310</td>
<td>General Climatology</td>
<td></td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Biogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Hydrogeography</td>
<td></td>
</tr>
<tr>
<td>GEOG 420</td>
<td>Methods and Principles in Land Form Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 424</td>
<td>Karst Geomorphology</td>
<td></td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Select 6 credits \(^1\)

Total Credits 15

\(^1\) Any two upper-division (numbered 300 or above) courses approved for natural science credit that have not been selected to fulfill the above requirements. A maximum of 3 credits from outside Geography may be applied to the major.

#### Globalization and Development Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 115</td>
<td>Globalization and Economic Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following in regional or world geography \(^2,3\) 3

**Regional:**

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<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
<td></td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td></td>
</tr>
<tr>
<td>GEOG 421</td>
<td>Geography of Latin America</td>
<td></td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td></td>
</tr>
</tbody>
</table>

**World:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 231</td>
<td>Muslim Geographies: Identities and Politics, Geography of Islam</td>
<td></td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
<td></td>
</tr>
<tr>
<td>GEOG 400</td>
<td>Population, Environment, Development</td>
<td></td>
</tr>
<tr>
<td>GEOG 410</td>
<td>Gendered Geographies</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 9

\(^1\) In addition to the regional or world course taken to satisfy major core requirement above.

\(^2\) If the course taken to meet core requirement is a Regional course, then the course selected to complete track requirement should be a World course, or vice versa, for a total of one Regional course and one World course in the major.

\(^3\) If not selected for core requirement above.

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http://uwm.edu/geography/undergraduate/

Geography, MA
Related Certificates

Overview
The Department of Geography offers both master's and doctoral programs of study across a range of systematic, regional, and technical fields, with innovative energy in the doctoral program for studying urban environments. The department's overall strengths are aligned along a theme of "Changing Environments," with three major axes, each responsive to areas with strong demand for new professionals:

- **Urban Environments:** This area emphasizes the spatial interactions of economic systems as well as political, social, cultural, environmental, technological, and other forces that influence the people, identities, landscape, development, and dynamics of urban areas. With the world's population becoming increasingly urbanized and globalized, courses examine the continuing challenges of urban growth and change, race, ethnicity, and gender in the city, immigration and identity politics, and spatial aspects of urban planning processes and political decision-making.

- **Physical Geography and Environmental Studies:** This area addresses the interactions among natural forms and processes on the earth's surface, the impact and implications of global climate change, and human connections with those natural phenomena. Courses discuss and analyze the distribution and processes of earth surface landforms (geomorphology), soils (pedology), plants and animals (biogeography), water (hydrology), and long-term atmospheric conditions (climatology). Overlapping emphases include phenology, water resources, conservation, natural hazards, natural resource scarcity, and the mounting challenges of global environmental change.

- **Geographic Information Science (GIS):** This area emphasizes using geospatial technology to further understanding of spatial interactions among natural and social forces at multiple scales across the Earth's surface, and exploring the impacts of using such technology on social and cultural interactions. Courses examine geographic information collection (including remote sensing), data analysis and geocomputation (spatial analysis), information presentation (cartography), and societal implications. Our program emphasizes applications of GIS in urban, regional, and environmental planning, policy making, and public health.

In addition to these departmental strengths, individual faculty members apply their expertise in topics such as remote sensing, GIS, and cartography to problems of the city. Geography faculty also participate in the certificate program in Geographic Information Systems, which is jointly offered by the College of Letters and Science and the School of Architecture and Urban Planning.

While the master's program offers a more traditional structure within which students can strengthen their knowledge of the discipline and one or more of its subfields, the department's unique PhD program is designed to be especially attractive to forward-looking students interested in the urban environment who seek a flexible, versatile, 21st century graduate education with a strong emphasis on interdisciplinarity. The PhD program's urban-environmental theme is inclusive and encompassing of processes and problems associated with the intersection of human and natural environments, strongly focused.
on “the city” as the entity of engagement. The program breaks with longstanding tradition in the field of geography in stressing a balance between specialized analytical research and synthetic research, between traditional academic research and community engagement, and between research and teaching. It relies heavily on Geographic Information Science (GIS) as a research tool and as an organizing framework.

Facilities and Resources
The University of Wisconsin–Milwaukee is the repository of the venerable American Geographical Society Library, an internationally renowned research resource. The Department of Geography boasts a large instructional Map Collection, which functions as a federal government depository for maps; and a Soils and Physical Geography Laboratory, which supports research projects among several UWM departments.  

Microcomputer facilities used by the Geography Department for instruction include two PC/Windows workstation labs. Software installed in these labs includes geographic information systems, remote sensing, mapping, illustration, photo editing, desktop publishing, statistical, database management, and word processing packages. Several university DEC Alphas, other microcomputer laboratories, and multimedia facilities also are available for graduate student research.

Other research resources at UWM available to the Geography Department staff and students include the Cartography and GIS Center, the Great Lakes WATER Institute, the Center for Urban Initiatives and Research, the Center for Latin America, the Center for International Education, the Center for Urban Transportation Studies, the Center for Women’s Studies, the Institute for Survey and Policy Research, and University Information Technology Services (formerly Information and Media Technologies).

Application Deadlines
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Master of Arts in Geography
The MA normally is awarded to those who concentrate in cultural or human geography. Students must elect to pursue either the MA or MS option during their first semester in the program. Students may also elect to complete their degree through either a thesis or non-thesis track.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Evidence of general intellectual ability and compelling interest in geography. An undergraduate major in geography is desirable as evidence of such ability and interest but is not required. Past coursework will be compared to the core requirements of the UWM Geography bachelor’s degree in order to determine any deficiencies that need to be satisfied as a condition of acceptance.
2. Submission to the Geography department of three letters of recommendation supporting application.
4. Departmental approval, based on thorough evaluation of applicant’s potential for professional development.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The Chair of the Graduate Student Administrative Committee is a temporary advisor; within the first semester the student selects an advisor in the student’s specialization.

Time Limit
This program is designed to be completed in two years of full-time attendance. The Graduate School requires that all degree requirements be completed within five years of initial enrollment.

The Standard Track is the only option for MA students.

A. Standard Track
Both M.A. and M.S. degrees are offered in the standard track. The M.A. normally is awarded to those who concentrate in cultural or human geography, whereas the M.S. is awarded to those who concentrate in physical geography. Students must elect to pursue either the M.A. or M.S. option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student’s area of study are required for the M.S. Students may also elect to complete their degree through either a thesis or non-thesis option.

The two options have the same coursework requirements except for the capstone project. Details are provided below.

Credits and Courses
Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

- 4 credits in Geog 726 (Geographic Information Science)
- 4 credits in Geog 747 (Spatial Analysis)
- 3 credits in Geog 810 (Introduction to Techniques of Research and Presentation)
- 3 credits in Geog 870 (Contemporary Geographic Approaches)
- 12 credits in graduate-level (700 and above) courses approved by the student’s advisor (at least 3 of these credits must be in one Geography graduate seminar course).

The remaining 4 credits will be earned in the student’s capstone project (see Thesis Option and Non-Thesis Option information below).

The student also must attend Geography colloquia regularly while in residence and must present her/his thesis research at a departmental colloquium.

Thesis Option
The student must register at least 4 credits of Geog 890 Research and Master’s Thesis (approved by the student’s advisor). In addition, the student, through the advisor, must present a proposed thesis topic and Advisory Committee to the Graduate Faculty of the Department for its approval. For students electing the M.S. option, the Faculty will also judge the appropriateness of the thesis topic for that degree.

The student must then write a thesis acceptable to the major professor for presentation to the Advisory Committee (two faculty members in addition to the advisor). The defense date for the thesis must be set at least two weeks prior to the Graduate School deadline for completion of all work. The thesis must be approved by the advisor and delivered to the committee at least six weeks prior to the defense date. Students must submit the thesis to the advisor in sufficient time to meet the committee
Non-Thesis Option
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- Two research papers (Geog 999) Students pursuing the non-thesis option through the two-research paper option must choose two separate topics, and conduct extended literature reviews on the topics, although other possibilities, such as a small research project, should not be excluded. The papers are expected to be 25-50 pages apiece. The student is expected to have an oral defense with three committee members regarding the two papers. According to current guidelines, the student is not expected to present their papers to the colloquium series.

OR

- A graduate internship (Geog 798 or Geog 889) (note that Geog 810 is a prerequisite for Geog 889). Students pursuing the non-thesis option through the graduate internship should conduct at least 180 hours of internship. The internship should be related to the student’s academic area of interest and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages in length that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper to the colloquium series.

Comprehensive Examination
In combination with the thesis defense (or after completion of the work for the non-thesis option), the student must pass a final oral examination over the field of geography, administered by the student’s Advisory Committee. Scheduling this examination during the summer is not permitted except under unusual academic circumstances and with the approval of the department faculty.

Geography, MA/Library and Information Science, MLIS
In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements
- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
  - The MLIS portion of the coordinated degrees can be completed online.
  - Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component
The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MA Geography
The MLIS/MA Geography Coordinated Degree Program prepares students for positions as map librarians. Graduates of the program are qualified to assume positions as curators and staff in map collections of universities, governmental agencies, and industry.

Application Deadlines
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Credits and Courses
The M.A. in Geography normally has a minimum requirement of 24 credits in geography. For the coordinated MA Geography/MLIS degree program, however, students can substitute 6 credits in INFOST courses for 6 credits of geography. This program, therefore, requires a total of 48 credits. Students must complete the 30 credits required for the MLIS degree and the 18 credits in Geography courses specified below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 810</td>
<td>Introduction to Techniques of Research and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 870</td>
<td>Contemporary Geographic Approaches: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Select a GEOG 900-level course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select any GEOG graduate course</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>19</td>
<td></td>
</tr>
</tbody>
</table>

The Geography Department offers opportunities for fieldwork that may count toward these requirements. In addition to off-campus fieldwork, the American Geographical Society Collection at the UWM Golda Meir Library provides many unique opportunities for map librarianship fieldwork and is an appropriate site for an internship.

Graduates of the program are qualified to assume positions as curators and staff members in map collections of universities, governmental agencies, and industry. In cases where map collections are not of sufficient size to warrant separation as distinct collections, knowledge of how to store, classify, and retrieve maps will be a valuable set of skills that enhance the qualifications of the information professional.
Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
</tbody>
</table>

Other MLIS courses 18

Total Credits 30

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

Geography, Minor

In high school, your Geography class probably focused on maps and locations. But, the field is so much broader than that. Geography bridges the physical and human world, using scientific methods to explain and predict people’s impact on the planet and the planet’s impact on people.

UWM’s Geography students graduate with an exceptional ability to intellectually and technologically process spatial data about space, place, and people and how they relate to each other. They understand how to make sense of seemingly unrelated pieces of information by bringing together facts and diverse values. They are adept at presenting information visually - for example, maps!

Some examples of research topics being tackled by today’s geographers include climate change, population shifts, land use patterns, and animal migration. These are all examples of how geographers focus on human’s relationship with man-made and natural environments.

Geographic Information Science (GIS) is a growing specialty within geography. GIS is a technology-based system for capturing, storing, and checking different types of data in relation to its position on Earth. It is a tool that enhances decision-making in both the private and public sector. For example, a rural town in the Rocky Mountains may use GIS data to determine where and when to place fire stations and personnel based on the patterns of forest fires and permanent and tourist populations. A corporation may use GIS to plan the location and layout of a new store based on shopping and traffic patterns.

Related Programs
For the teaching major and minor, see the School of Education (p. 426) section of this catalog. A related special major is International Studies (p. 1490). Related certificate programs include Asian Studies (p. 1052), Latin American, Caribbean, and U.S. Latin@ Studies (p. 1550), and Middle Eastern and North African Studies (p. 1636).

Requirements
The geography minor requires the completion, with a GPA of 2.500 or above in all geography courses attempted at UWM, of 18 credits in geography courses, at least 9 of which must be at the 300 level or above taken in residence at UWM. In addition, students must attain a 2.500 GPA on all courses attempted in the minor, including transfer work. The following are required:

Contact Information
Current Students contact Associate Professor Kristin Sziarto at sziarto@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/geography/undergraduate/

Geography, MS

Related Certificates

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Master of Science in Geography
The MS is awarded to those who concentrate in physical geography. Students must elect to pursue either the MA or MS option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student’s area of study are required for the MS Students may also elect to complete their degree through either a thesis or non-thesis track.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Evidence of general intellectual ability and compelling interest in geography. An undergraduate major in geography is desirable as evidence of such ability and interest but is not required. Past coursework will be compared to the core requirements of the UWM Geography bachelor's degree in order to determine any deficiencies that need to be satisfied as a condition of acceptance.
2. Submission to the Geography department of three letters of recommendation supporting application.
4. Departmental approval, based on thorough evaluation of applicant’s potential for professional development.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The Chair of the Graduate Student Administrative Committee is a temporary advisor; within the first semester the student selects an advisor in the student’s specialization.

Time Limit
This program is designed to be completed in two years of full-time attendance. The Graduate School requires that all degree requirements be completed within five years of initial enrollment.

Track Options
MS students may choose the Standard or the GIS Professional Track.

A. Standard Track
Both M.A. and M.S. degrees are offered in the standard track. The M.A. normally is awarded to those who concentrate in cultural or human geography, whereas the M.S. is awarded to those who concentrate in physical geography. Students must elect to pursue either the M.A. or M.S. option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student’s area of study are required for the M.S. Students may also elect to complete their degree through either a thesis or non-thesis option.
The two options have the same coursework requirements except for the capstone project. Details are provided below.

**Credits and Courses**

Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

- 4 credits in Geog 726 (Geographic Information Science)
- 4 credits in Geog 747 (Spatial Analysis)
- 3 credits in Geog 810 (Introduction to Techniques of Research and Presentation)
- 3 credits in Geog 870 (Contemporary Geographic Approaches)
- 12 credits in graduate-level (700 and above) courses approved by the student's advisor (at least 3 of these credits must be in one Geography graduate seminar course).

The remaining 4 credits will be earned in the student's capstone project (see Thesis Option and Non-Thesis Option information below).

The student also must attend Geography colloquia regularly while in residence and must present her/his thesis research at a departmental colloquium.

**Thesis Option**

The student must register at least 4 credits of Geog 890 Research and Master's Thesis (approved by the student's advisor). In addition, the student, through the advisor, must present a proposed thesis topic and Advisory Committee to the Graduate Faculty of the Department for its approval. For students electing the M.S. option, the Faculty will also judge the appropriateness of the thesis topic for that degree.

The student must then write a thesis acceptable to the major professor for presentation to the Advisory Committee (two faculty members in addition to the advisor). The defense date for the thesis must be set at least two weeks prior to the Graduate School deadline for completion of all work. The thesis must be approved by the advisor and delivered to the committee at least six weeks prior to the defense date. Students must submit the thesis to the advisor in sufficient time to meet the committee deadline. Exceptions to these deadlines under unusual circumstances must be approved unanimously by the student's committee. In addition to submission of the final thesis to the Graduate School (according to their required procedure), the candidate must present the Geography Department with a professionally hard-bound copy which meets Graduate School specifications for quality. This copy will remain on file in the department.

**Non-Thesis Option**

This option is intended for students who are not interested in continuing their graduate education beyond the master's degree, and plan to seek professional employment. The M.A. degree will normally be awarded upon completion of this option. Those who wish to earn a M.S. degree must formally petition the Graduate Faculty in writing, providing a rationale as to why that degree is appropriate to their program. The student must complete at least 4 credits of graduate work (approved by the student's advisor) as either:

- Two research papers (Geog 999) Students pursuing the non-thesis option through the two-research paper option must choose two separate topics, and conduct extended literature reviews on the topics, although other possibilities, such as a small research project, should not be excluded. The papers are expected to be 25-50 pages apiece. The student is expected to have an oral defense with three committee members regarding the two papers. According to current guidelines, the student is not expected to present their papers to the colloquium series.

**OR**

- A graduate internship (Geog 798 or Geog 889 (note that Geog 810 is a prerequisite for Geog 889). Students pursuing the non-thesis option through the graduate internship should conduct at least 180 hours of internship. The internship should be related to the student's academic area of interest and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages in length that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper to the colloquium series.

**Comprehensive Examination**

In combination with the thesis defense (or after completion of the work for the non-thesis option), the student must pass a final oral examination over the field of geography, administered by the student’s Advisory Committee. Scheduling this examination during the summer is not permitted except under unusual academic circumstances and with the approval of the department faculty.

**B. GIS Professional Track**

This track is intended for students who plan to seek professional employment in the field of GIS and are not interested in continuing their graduate education beyond the master's degree. Only M.S. degrees are offered in the GIS professional track.

**Credits and Courses**

Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

- 4 credits in Geog 726 (Geographic Information Science)
- 4 credits in Geog 747 (Spatial Analysis)
- 4 credits in Geog 704 (Remote Sensing)
- 4 credits in Geog 826 (Intermediate GIS)
- 4 credits in Geog 705 (Cartography)
- 6 credits from electives

The remaining 4 credits will be earned in the student’s capstone project (Geog 798).

The student also must attend Geography colloquia regularly while in residence.

**Elective Courses**

(Choose two)

- Geog 926 Advanced GIS: Geographic Modeling
- Geog 834 GIS & Society
- Geog 960 Seminar in Geographic Techniques (subtitled)
- Geog 804 Advanced Remote Sensing
- Geog 904 Remote Sensing and Urban Analysis
- Geog 827 Qualitative Research
- UrbPlan 791 Introduction to Urban Geographic Systems for Planning
- UrbPlan 792 Using Urban Geographic Information Systems (GIS) for Planning
- UrbPlan 793 Applied Projects in Urban Geographic Information Systems
- UrbPlan 794 Internet Geographic Information Systems (GIS)
Capstone Project (Geog 798)

Students pursuing the GIS professional track should conduct at least 180 hours of internship. The internship should be related to the field of GIS and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages in length that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper at the colloquium series.

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Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) to be considered for admission to the program. Students from a wide range of disciplinary backgrounds may be admitted. They must present the following credentials:

1. Master's degree.
2. Statement of interest in the program.
3. Substantial evidence of scholarly potential and commitment.
4. Three letters of recommendation, submitted to the Geography Department.

5. Recent (within five years) GRE (http://uwm.edu/graduateschool/admission/#gre) scores.

In some instances where the applicant’s record demonstrates exceptional promise, the Department will consider applications for admission to the PhD program directly from a BA/BS degree. Such admission does not constitute a waiver of any of the requirements indicated below.

The Graduate Program Committee, during the admission process, will evaluate an applicant’s academic background and will assign deficiencies based on a comparison of his/her background and the proposed specific area of study as outlined in the student’s statement of interest. In general, the department seeks students with:

1. Potential for planning and successfully completing an independent scientific research project, as evidenced by a master’s thesis and/or other appropriate materials;
2. Basic statistical analysis skills;
3. Interest and/or ability in evaluating problems related to the urban environment with a spatial framework; and
4. Interest in examining research questions within a multi-disciplinary (human/physical) team environment.

**Reaplication**

A student who receives the master’s degree from UWM must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

**Major Advisor and Committee**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations; the student may not register for any courses without that advisor’s prior approval. The Chair of the Graduate Student Administrative Committee is a temporary advisor; within the first semester the student selects an advisor within the area of specialization. Each student, preferably after completion of the first year of study, also will select four additional members of the faculty/qualified professions to form his/her advisory committee. A majority of the committee members must be core geography faculty members. Affiliated faculty members from other departments may serve as major advisors.

**Graduate Student Orientation**

All new students are expected to participate in the department orientation program, offered during the week prior to the start of fall classes. If a student enters the program in the spring, s/he must participate in this program during the subsequent fall semester. New students will be paired with an experienced student mentor during their first year. Instructional opportunities sponsored by the Center for Instruction and Professional Development (CIPD) and the Preparing Future Faculty (PFF) initiative will be offered to all teaching assistants and other interested students enrolled in the doctoral program.

**Credits and Courses**

Minimum degree requirement is 54 graduate credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM with a minimum GPA of 3.0.

Under the guidance of the advisory committee, the chair of which serves as the student’s major professor, the student plans a program of study leading to the development of a special interest. All programs of study contain the following four elements: core concepts and methods, thematic focus, elective courses (as needed to meet the total credit requirement), and dissertation.

**Core Concepts and Methods**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 870</td>
<td>Contemporary Geographic Approaches</td>
<td>3</td>
</tr>
<tr>
<td>Select any Geography graduate seminar</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOG 827</td>
<td>Qualitative Research</td>
<td></td>
</tr>
</tbody>
</table>

**Thematic Focus**

Select three courses 9-12

**Electives**

Select courses taken from geography or cognate fields to achieve the total of 54 credits required for the Ph.D. degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 455</td>
<td>Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 834</td>
<td>GIS and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 945</td>
<td>The Internal Structure of the City</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 981</td>
<td>Argument in Urban Studies Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

**Global and Regional Perspectives**

Relevant courses include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Students must have the approval of their advisors for the elective courses.
The candidate must write an acceptable dissertation that demonstrates formulation, design, and independent execution of a significant research project. The dissertation must make an original contribution to knowledge in the field of geography. It may focus on geographical research project. The dissertation must make an original contribution to knowledge in the field of geography. It may focus on geographical research, funding, presentation, and publication.

Each student must make two presentations at department colloquia. The first presentation will be scheduled early in the student's program; it is designed to give the student experience in making formal presentations. The second presentation will communicate the student's dissertation research. The second examination will be recommended for academic dismissal. The student receiving a negative vote of the advisory committee after the examination over the parts in which the student failed to qualify. A student judged qualified by the majority of the five-member advisory committee will be determined by the student's advisory committee. The content of the examination will be determined by the area of the student's interest. The scope of the examination will be determined by the student's advisory committee.

The student's advisor, as chair of the advisory committee, will organize and administer the examination. The content of the examination will be determined by the area of the student's interest. The scope of the examination will be determined by the student's advisory committee. A student judged qualified by the majority of the five-member advisory committee will be admitted to candidacy. A student judged not qualified by the majority of the advisory committee will not be admitted to candidacy at the time of the examination but will be given an opportunity to retake the examination once, after a waiting period of at least one semester. At the discretion of the advisory committee, the second examination will be either a complete reexamination or a partial examination over the parts in which the student failed to qualify. A student receiving a negative vote of the advisory committee after the second examination will be recommended for academic dismissal. The student will be informed of the reasons for failure to qualify.

Presentations

Each student must make two presentations at department colloquia. The first presentation will be scheduled early in the student's program; it is designed to give the student experience in making formal presentations. The second presentation will communicate the student's dissertation research topic and preliminary results.

Dissertation

As mentioned above, the candidate must write an acceptable dissertation. The defense date for the dissertation must be set at least two weeks prior to the Graduate School deadline. The dissertation must be approved by the major professor and delivered to the student's advisory committee at least six weeks prior to the defense date. A student must submit the dissertation to the advisor in sufficient time.
to meet the committee's deadline. Exceptions to these deadlines under unusual circumstances must be approved unanimously by the student's committee.

**Dissertation Defense**

The candidate must, as the final step toward the degree, defend the dissertation before the advisory committee. If the candidate passes the defense, the advisory committee will recommend to the Graduate School that a degree of Doctor of Philosophy be conferred.

**Submission of Completed Dissertation**

In addition to submission of the final dissertation to the Graduate School (according to its required procedure), the candidate must present to the Geography Department a professionally hard-bound copy that meets Graduate School specifications for quality. This copy will remain on file in the department.

**Time Limit**

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

**Special Issues for Directly Admitted Students**

Students directly admitted to the doctoral program after completion of their bachelor's degree will not earn a master's degree during the course of their studies. Further, formal doctoral status (which affects stipend rates and the ability to fulfill the residency requirement) will not be granted until the student has completed 24 credits in the program. Lastly, no more than 12 dissertation credits can be used to satisfy the 54-credit doctoral degree requirement.
GEOSCIENCES

The Department of Geosciences is an educational community of students, researchers, and teachers focused on scientific examination of the Earth. We ask important questions, create new knowledge, and communicate information about Earth's properties and processes through deep-time. Through our research, study, and teaching, we aim to help create a scientifically informed society and enable our students to achieve their professional goals. We welcome all who share our intellectual curiosity about the Earth; our diverse community includes people from a variety of intellectual, religious, class, cultural, and political perspectives.

Programs

• Geosciences, BA (p. 1423)
• Geosciences, BS (p. 1426)
• Geosciences, Minor (p. 1429)
• Geosciences, MS (p. 1429)
• Geosciences, PhD (p. 1430)

Geosciences Courses

GEO SCI 100 Introduction to the Earth
3 cr. Undergraduate.
Study of earth processes and materials as they relate to man and the environment. Lec, lab.
Prerequisites: none.
Course Rules: Voluntary field trip for which fee is assessed. No cr for students w/cr in Geo Sci 185.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

GEO SCI 102 Principles of Historical Geology
3 cr. Undergraduate.
Principles for interpreting the physical and paleontological history of the earth using case studies from the rock record. 2 hrs lec, 3 hrs lab.
Prerequisites: none.
Course Rules: Field trip for which fee is assessed.
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEO SCI 105 Earth, Air, Fire and Water
3 cr. Undergraduate.
A study of planet Earth from formation through history to modern-day oceans, atmosphere, continents, and interior; how all interact to form the human environment.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

GEO SCI 106 The Earth Environment
3 cr. Undergraduate.
The Earth and its environment; emphasis on the interrelationships of humans with the Earth’s processes and responses. Lec.
Prerequisites: none.
Course Rules: Voluntary field trip for which fee is assessed.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

GEO SCI 108 A History of Life
3 cr. Undergraduate.
Major features of the history of life; how paleontologists reconstruct this history. 2 hrs lec, 2 hrs lab.
Prerequisites: none.
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEO SCI 109 Dinosaurs
3 cr. Undergraduate.
The natural history of dinosaurs and how geologists and paleontologists reconstruct that history.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

GEO SCI 120 Geology of the Planets
3 cr. Undergraduate.
Geological features of the planets, similarities and differences in materials and processes, significance of space exploration to geology. Lec/Lab.
Prerequisites: none.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

GEO SCI 150 Introduction to Ocean Sciences
3 cr. Undergraduate.
Survey of the interdisciplinary sciences supporting oceanography. Designed for students who do not plan to major in geological sciences but are interested in the recent advances of marine sciences. Lec, voluntary dis.
Prerequisites: none.
Course Rules: Not open for cr to students who have had Geo Sci 460.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

GEO SCI 151 Ocean Sciences Laboratory
1 cr. Undergraduate.
Laboratory exercises and demonstrations of the physical, chemical and biological processes operating in the oceans and how scientists study these processes. 2 hrs lab.
Prerequisites: Geo Sci 150(C).
Course Rules: Not open for cr to students who have had Geo Sci 460 or 461.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule
GEO SCI 185 Introductory Earth Science for Teachers
3 cr. Undergraduate.
A study of the rock cycle, water cycle and atmosphere of the earth and the essential processes that affect them. 2 hrs lec; 2 hrs lab/dis.
Prerequisites: regis in elem, early childhood, or exc educ curric, EDBA classif, or cons instr.
Course Rules: Not open for cr to students w/cr in Geo Sci 100, 105, or Atm Sci 105. Required field trips for which fees are assessed.
General Education Requirements: NS+
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

GEO SCI 194 First-Year Seminar.
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2007.
Current Offerings: http://uwm.edu/schedule

GEO SCI 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Last Taught: Spring 2013, Fall 2011, Summer 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

GEO SCI 208 Geology of Wisconsin
1 cr. Undergraduate.
Introduction to the geologic events and processes which shaped the scenic Wisconsin landscape with emphasis on geologically significant recreational areas accessible to the public.
Prerequisites: college course in physical geology or physical geography.
Course Rules: Not open for cr to students with Geo Sci 011.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

GEO SCI 250 Marine Science at Sea: A Hands-On Laboratory
3 cr. Undergraduate.
Marine field work at sea from an oceanographic vessel.
Prerequisites: Geo Sci 150(P) or cons instr.
Course Rules: Not open for cr to students who completed Geo Sci 150 at sea in UWinteriM 2003.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

GEO SCI 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Spring 2010.
Current Offerings: http://uwm.edu/schedule

GEO SCI 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

GEO SCI 301 Principles of Mineralogy
3 cr. Undergraduate.
Major rock-forming minerals, their associations, geologic occurrence, and importance with an emphasis on identification using physical properties and other techniques. 2 hrs lec, 3 hrs lab.
Prerequisites: Geo Sci 100(P); course in college chem.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEO SCI 302 Elementary Petrology
3 cr. Undergraduate.
Continuation of Geo Sci 301. Igneous and metamorphic rocks, including classification, genesis, field identification, and petrographic microscope study. 2 hrs lec, 3 hrs lab.
Prerequisites: Geo Sci 301(P).
Course Rules: Required field trip for which fee is assessed.
Current Offerings: http://uwm.edu/schedule

GEO SCI 316 Introduction to Geophysics
3 cr. Undergraduate.
The study of geophysical methods and their applications to the understanding of the interior of the Earth and global tectonics. Lec.
Prerequisites: Geo Sci 100(P) or 101(P) & Physics 120(P) or 209(P).
Course Rules: Geo Sci 301(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEO SCI 317 Stable Isotope Geochemistry
3 cr. Undergraduate/Graduate.
To understand the fractionation and mass balance of stable isotope systems in nature and their application to geologic problems.
Prerequisites: jr st; Geo Sci 100(P) or 101(P), & Chem 104(C) & Geo Sci 301(P).
Current Offerings: http://uwm.edu/schedule

GEO SCI 381 Honors Seminar:
3 cr. Undergraduate.
Selected topics.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max. Field trips may be required.
General Education Requirements: NS
Last Taught: Fall 2015, Spring 2008, Fall 2000, Fall 1998.
Current Offerings: http://uwm.edu/schedule

GEO SCI 400 Water Quality
3 cr. Undergraduate/Graduate.
Water availability and water quality in surface and subsurface water bodies; management of water as a resource. 2 hrs lec, 3 hrs lab.
Prerequisites: jr st; Chem 102(P); Math 232(P); or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
GEO SCI 401 General Soil Science
3 cr. Undergraduate/Graduate.
Soil profile development, weathering, soil mineralogy, water and nutrient relationships, classification of soil. 2 hrs lec, 3 hr lab.
Prerequisites: jr st; Chem 104(P) or equiv or cons instr.
Course Rules: Required field trips for which fees are assessed.
Current Offerings: http://uwm.edu/schedule

GEO SCI 405 Geology for In-Service Teachers:
1-3 cr. Undergraduate/Graduate.
Basic, advanced or new topics in geology for in-service teachers.
Prerequisites: in-service teacher, additional prereqs depending on topic.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

GEO SCI 409 Process Geomorphology
3 cr. Undergraduate/Graduate.
Study of geological processes and their effect on the formation and evolution of land forms. Lec, lab, field trips for which fee is assessed.
Prerequisites: jr st; Geo Sci 100(P), Geoq 120(P), or 121(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEO SCI 414 Structural Geology
3 cr. Undergraduate.
Description and analysis of primary and secondary geological structures; regional and global frameworks of geological structures. 2 hrs lec, 2 hrs lab.
Prerequisites: jr st; Math Placement Level 40; Geo Sci 302(C).
Course Rules: Field trip for which fee is assessed.
Current Offerings: http://uwm.edu/schedule

GEO SCI 435 History of Geologic Thought
3 cr. Undergraduate/Graduate.
History of development of the major concepts in geology.
Prerequisites: jr st; Geo Sci 102(P) or cons instr.
Last Taught: Fall 2016, Fall 2013, Fall 2009, Fall 1993.
Current Offerings: http://uwm.edu/schedule

GEO SCI 440 Geochemical Thermodynamics
3 cr. Undergraduate/Graduate.
Basic equilibrium thermo-dynamics applied to low-temperature and high-temperature geochemical problems.
Prerequisites: jr st, Chem 104(P), Geo Sci 301(P), & Math 231(P).
Current Offerings: http://uwm.edu/schedule

GEO SCI 443 Glacial and Pleistocene Geology
3 cr. Undergraduate/Graduate.
Mechanics of glacial flow, Pleistocene stratigraphy, and laboratory techniques. Lec, lab, & field trips for which fees are assessed.
Prerequisites: jr st; Geo Sci 100(P) or 101(P) or Geoq 120(P) or 121(P).
GEO Sci 102(R) or 108(R).
Current Offerings: http://uwm.edu/schedule

GEO SCI 445 Field Geology
3-8 cr. Undergraduate.
Geologic field work and mapping. Taken off-campus, usually during the summer.
Prerequisites: sr st; Geo Sci 302(P) & 414(P).
Course Rules: May be retaken to 8 cr max.
Current Offerings: http://uwm.edu/schedule

GEO SCI 461 Physical Oceanography
3 cr. Undergraduate/Graduate.
Overview of physical oceanography, conservation of mass, salinity and momentum, thermodynamics, equations of motion. Waves, currents and circulation.
Prerequisites: jr st; Math 232(P), & Physics 123(P) or 210(P).
Current Offerings: http://uwm.edu/schedule

GEO SCI 463 Physical Hydrogeology
3 cr. Undergraduate/Graduate.
Study of ground water occurrence, its interrelationship with surface water, aquifer properties, groundwater flow and water supply development, including well hydraulics, water quality, and groundwater law. Lec, lab, & field trip for which fee is assessed.
Prerequisites: jr st; Geo Sci 100(P) or 101(P); Math 232(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GEO SCI 464 Chemical Hydrogeology
3 cr. Undergraduate/Graduate.
Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. Lec, lab.
Prerequisites: jr st; Chem 102(P).
Course Rules: Frshwr 464 & Geo Sci 464 are jointly-offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

GEO SCI 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

GEO SCI 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
GEO SCI 501 Phanerozoic Evolutionary Trends
3 cr. Undergraduate/Graduate.
Examination of Earth's paleoecological patterns and their driving
mechanisms. Counts as repeat of Geo Sci 696 or 697 w/same topic.
Prerequisites: jr st; Geo Sci 102(P).
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

GEO SCI 511 Stratigraphy and Sedimentation
3 cr. Undergraduate/Graduate.
Techniques and principles of sedimentology and stratigraphy, including
methods of correlation, analysis of facies, stratigraphic mapping, and
tectonic controls of sedimentation. Lec, lab, field trips.
Prerequisites: jr st; Geo Sci 102(P) or equiv.
Current Offerings: http://uwm.edu/schedule

GEO SCI 515 Physical Sedimentology
3 cr. Undergraduate/Graduate.
Physical properties, processes, and environments of clastic sediments.
Lec, lab, field trip for which fee is assessed.
Prerequisites: jr st; Geo Sci 511(P).
Last Taught: Fall 2014, Fall 2009, Fall 2007, Fall 2004.
Current Offerings: http://uwm.edu/schedule

GEO SCI 520 Introduction to Paleontology
3 cr. Undergraduate/Graduate.
General study of fossils and theoretical principles used in the study of
paleontology. Lec, lab, field trips.
Prerequisites: jr st; Geo Sci 102 or 108.
Last Taught: Fall 2017, Fall 2015, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

GEO SCI 525 Terroir: Geology in a Glass
3 cr. Undergraduate/Graduate.
The geology, soil types, and climate of famous wine regions; factors that
influence the production of fine wine.
Prerequisites: jr st; Geo Sci 100(P).
Course Rules: No cr for students w/cr in Geo Sci 696 w/same topic.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

GEO SCI 528 Biogeochemistry and the Fossil Record
3 cr. Undergraduate/Graduate.
Fermentation as a metabolic process; the organic geochemistry of
fermentation; and procedures and protocols for fermentation experiments.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

GEO SCI 545 X-Ray Analytical Methods
3 cr. Undergraduate/Graduate.
Methods in x-ray diffractometry and spectrometry. Nature and generation
of x-rays, collection and interpretation of powder diffraction patterns and
 elemental analysis using x-ray spectrometry.
Prerequisites: jr st, Geo Sci 301(P); satisfaction of OWC-A req; Chem
102(C).
General Education Requirements: OWC
Current Offerings: http://uwm.edu/schedule

GEO SCI 558 Conducted Field Trip:
1-3 cr. Undergraduate/Graduate.
Field trip to a classical geologic area. Preceded by a seminar.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max, only 3 cr of
which may be applied toward geo sci major.
Current Offerings: http://uwm.edu/schedule

GEO SCI 562 Environmental Surface Hydrology
3 cr. Undergraduate/Graduate.
Land-atmosphere interactions, modeling of runoff generation, and water
movement in the vadose zone. 3 hrs lec.
Prerequisites: jr st; Math 232(P); or cons instr.
Last Taught: Fall 2012, Fall 2010, Fall 2008, Fall 2006.
Current Offerings: http://uwm.edu/schedule

GEO SCI 563 Field Methods in Hydrogeology
3 cr. Undergraduate/Graduate.
Introduction to current equipment and methodology used in field
evaluation of hydrologic systems. Well installation and monitoring,
stream gaging, indirect surface observations. Lab, field trip for which fee
is assessed.
Prerequisites: jr st; Geo Sci 463(P).
Last Taught: Fall 2012, Fall 2010, Fall 2008, Fall 2006.
Current Offerings: http://uwm.edu/schedule

GEO SCI 599 Geology of Wisconsin--Field Course
3 cr. Undergraduate/Graduate.
Multi-institutional team-taught, conducted field course throughout
Wisconsin; instruction in the field, using exposures on which Wisconsin's
geological history has been interpreted.
Prerequisites: jr st; Geo Sci 302(P).
Current Offerings: http://uwm.edu/schedule

GEO SCI 614 Advanced Structural Geology
3 cr. Undergraduate/Graduate.
Advanced analysis of deformation as applied to geological structures
from microscopic through regional scales. Lec, field trip for which fee is
assessed.
Prerequisites: jr st; Geo Sci 414(P); Math 231(C).
Current Offerings: http://uwm.edu/schedule

GEO SCI 635 Volcanology
3 cr. Undergraduate/Graduate.
Why and when volcanoes erupt; predicting whether eruptions will be
explosive or passive.
Prerequisites: jr st; Geo Sci 302(P) or cons instr.
Last Taught: Fall 2016, Fall 2013, Fall 2009, Fall 2007.
Current Offerings: http://uwm.edu/schedule

GEO SCI 636 Geochronology
3 cr. Undergraduate/Graduate.
Theory and application of radiometric and other numerical dating
methods in geology, archaeology, and paleoanthropology.
Prerequisites: jr st, Anthro 101(P) or 103(P) or Geo Sci 100(P), & cons
instr; or grad st & cons instr.
Course Rules: Anthro 636 & Geo Sci 636 are jointly offered; they count as
repeats of one another.
Current Offerings: http://uwm.edu/schedule
GEO SCI 637 Planetary Geology
3 cr. Undergraduate/Graduate.
Advanced study of planetary geology, for advanced undergraduate and graduate students.
Prerequisites: jr st; Geo Sci 301(P) or Astron 211(P) or 400(P); completion of OWC-A GER (English 102 or equiv placement).
Course Rules: No cr for students w/cr in Geo Sci 697 w/same topic.
General Education Requirements: OWCB
Last Taught: Spring 2017, Spring 2015.
Current Offerings: http://uwm.edu/schedule

GEO SCI 638 Advanced Igneous Petrology
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Geo Sci 302(P).
Last Taught: Fall 2017, Fall 2014, Fall 2010, Fall 2008.
Current Offerings: http://uwm.edu/schedule

GEO SCI 655 Topics in Structure and Tectonics
1-3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Geo Sci 414(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEO SCI 668 Geoelectrical Methods
3 cr. Undergraduate/Graduate.
Fundamentals of electrical resistivity surveys and electromagnetic methods, with an emphasis on surficial and environmental applications.
Prerequisites: jr st; Geo Sci 316(C), 463(C), or 661(C).
Current Offerings: http://uwm.edu/schedule

GEO SCI 668 Seminar in Geosciences for Teachers:
1-6 cr. Undergraduate/Graduate.
Seminar modules on various topics in geosciences offered for teachers.
Prerequisites: current teaching contract.
Course Rules: Open only to practicing science teachers with demonstrable expertise in geoscience. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEO SCI 694 Undergraduate Seminar:
1-3 cr. Undergraduate.
Intensive study of a selected topic in a seminar format.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max, of which up to 3 cr may count in major requirements.
Last Taught: Spring 2011, Fall 2010, Fall 2009, Spring 2009.
Current Offerings: http://uwm.edu/schedule

GEO SCI 695 Internship in Geoscience
1-3 cr. Undergraduate/Graduate.
An internship consistent with the student's plan of study in geosciences. Requirements and evaluation determined by the department on an individual basis.
Prerequisites: jr st; cons dept.
Current Offerings: http://uwm.edu/schedule

GEO SCI 696 Topics in the Geological Sciences:
1-3 cr. Undergraduate/Graduate.
Add'l prereqs announced in Schedule of Classes each time course offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEO SCI 697 Seminar in the Geological Sciences:
1-3 cr. Undergraduate/Graduate.
Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEO SCI 698 Research Experience for Teachers
1-6 cr. Undergraduate/Graduate.
Enrichment of students' geoscience background. Work with faculty mentor to develop an innovative teaching program for use in students' own classrooms.
Prerequisites: current teaching contract.
Course Rules: Open only to practicing science teachers with demonstrable expertise in geoscience. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEO SCI 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Advanced independent geologic study under supervision of Geo Sci faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult supervising instr or dept chair.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 3 cr max.
Last Taught: UWinterM 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEO SCI 703 Biotic Crises in Earth's History
3 cr. Graduate.
The interconnectedness among the physical, chemical, and biological processes on Earth and throughout Earth's history.
Prerequisites: grad st; Geo Sci 520(P) or equiv.
Current Offerings: http://uwm.edu/schedule

GEO SCI 730 Modelling Techniques for Hydrogeology
3 cr. Graduate.
Study and application of modelling techniques in hydrogeology. Includes finite difference and finite element techniques for groundwater flow, contaminant transport, and geochemistry.
Prerequisites: grad st; Geo Sci 463; knowledge of fortran or equiv; cons instr.
Current Offerings: http://uwm.edu/schedule
GEO SCI 740 Carbonate Sedimentology
3 cr. Graduate.
Depositional processes, environments and stratigraphic analysis of carbonate rocks. Lec, lab, field trip, for which fee is assessed.
Prerequisites: grad st; Geo Sci 511 or equiv.
Course Rules: Field trip for which fee is assessed.
Last Taught: Fall 2017, Fall 2015, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GEO SCI 749 Biogeochemistry of Soils
3 cr. Graduate.
Biogeochemical processes in soils and their impact on water quality. 3 hrs lec.
Prerequisites: grad st; Geo Sci 464(P) or cons instr.
Last Taught: Spring 2009.
Current Offerings: http://uwm.edu/schedule

GEO SCI 750 Contaminant Hydrogeology
3 cr. Graduate.
Transport and fate of contaminants in aquifers, aquitards, and unsaturated geologic materials.
Prerequisites: grad st; Geo Sci 464(C).
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

GEO SCI 790 Graduate Seminar in the Geological Sciences:
1-3 cr. Graduate.
Add'l prereqs announced in schedule of classes each time course offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

GEO SCI 888 Candidate for Degree
0 cr. Graduate.
Available for grad students who must meet minimum cr load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Fall 2017, Fall 2016, Summer 2016, Summer 2015.
Current Offerings: http://uwm.edu/schedule

GEO SCI 990 Master’s Thesis
1-8 cr. Graduate.
Prerequisites: grad st; cons instr & completed thesis proposal.
Current Offerings: http://uwm.edu/schedule

GEO SCI 997 Doctoral Externship
1-12 cr. Graduate.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEO SCI 998 Doctoral Dissertation
1-12 cr. Graduate.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GEO SCI 999 Advanced Independent Reading
1-4 cr. Graduate.
Independent geologic study.
Prerequisites: grad st & cons instr.
Course Rules: Retakable to 4 cr max.
Current Offerings: http://uwm.edu/schedule

Cross-listed Courses
The following courses offered by the Department of Geography may be used to fulfill the requirements of the undergraduate major and minor in geosciences:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td>3</td>
</tr>
</tbody>
</table>

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julie Bowles</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of California, San Diego</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Bruce E. Brown</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Barry I. Cameron</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Northern Illinois University</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Douglas S. Cherkauer</td>
<td>Professor</td>
<td>PhD</td>
<td>Princeton University</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Dyanna Czeck</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Stephen Dornbos</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>David Edgington</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Oxford</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Margaret Fraiser</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Timothy J. Grundl</td>
<td>Professor</td>
<td>PhD</td>
<td>Colorado School of Mines</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Erik Gulbranson</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of California-Davis</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Mark T. Harris</td>
<td>Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>John Isbell</td>
<td>Professor</td>
<td>PhD</td>
<td>Ohio State University</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>William F. Kean</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Pittsburgh</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Norman P. Lasca</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Michigan-Ann Arbor</td>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>
Geosciences, BA

Many students are already familiar with Geosciences through what is commonly called "earth science" in high school. Geosciences covers our Planet Earth - its soil, minerals, climate change, magnetic fields, earthquakes, water, plants, fossils, volcanoes and more.

The BA degree in Geosciences requires fewer math, physics, and chemistry prerequisites and upper-level courses than the BS degree. It is designed for students who expect to use the earth sciences in preparation for a career in law, business, government, primary or secondary schools, or natural resources, or for those who start the Geosciences program later in their college careers. The BA degree in Geosciences is more easily combined with complementary majors for students to pursue a double or a triple major.

Geosciences majors at UWM can organize their electives around a particular area of interest if they wish:

- Hard Rock - the study of structural geology, mineralogy, petrology, volcanology and tectonics
- Hydrogeology - the study of water resources
- Paleontology - the study of evolutionary patterns in history
- Sedimentary Geology - the study of rocks, fossils, and landforms in the context of the biological and chemical make-up

Geosciences touches on all aspects of the other natural sciences including chemistry, biology, mathematics and physics, so the ideal student for Geosciences loves all types of science and is curious about how they interrelate. Most Geosciences students also love the outdoors and traveling off of the beaten path.

Required outdoor field work prepares students for jobs with environmental and water resource management; energy and mineral industries; and government agencies.

UWM students often participate in research abroad in places as diverse as Iceland, Turkey, South America, Ireland, and New Zealand. Others gain hands-on experience in the dirt of Montana, the hills of South Dakota or the swamps of Florida.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
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<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>College of Letters &amp; Science Requirements</td>
<td></td>
</tr>
<tr>
<td>I. English Writing Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 or more credits in any 200-level or above Math course</td>
<td>9</td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>9</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td>9</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code   | Title                                      | Credits |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td>9</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part B.
* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

### Major Requirements

All students who major in Geosciences must complete at least 15 credits in Geosciences courses at the advanced level (numbered 300 or above) in residence at UWM as part of the 36 advanced-level credits required for the L&S degree. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 301</td>
<td>Principles of Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 302</td>
<td>Elementary Petrology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 414</td>
<td>Structural Geology (satisfies L&amp;S research requirement)</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 455</td>
<td>Field Geology (normally taken over the summer)</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 511</td>
<td>Stratigraphy and Sedimentation</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Electives

Select 9 additional credits from Geosciences Department courses at the 300 level or above

#### Other Requirements

**Physics and Chemistry**

Select at least one laboratory course in physics and one laboratory course in chemistry selected from the courses required for the Geosciences B.S. Option.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 455</td>
<td>Required but not offered at UWM. Students must enroll in a field course at another university to satisfy the requirement.</td>
<td>3</td>
</tr>
</tbody>
</table>

### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uw.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Honors in the College of Letters and Science

#### Dean's Honor List

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

#### Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

#### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable
semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**
Current Students contact the Department directly at geo-info@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/geosciences/undergraduate/

**Geosciences, BS**
Many students are already familiar with Geosciences through what is commonly called "earth science" in high school. Geosciences covers our Planet Earth - its soil, minerals, climate change, magnetic fields, earthquakes, water, plants, fossils, volcanoes and more.

The Bachelor of Science (BS) degree in Geosciences is designed to prepare students to become professional Earth scientists in a wide range of disciplines, as well as to enter graduate programs for further advanced training. The BS curriculum includes more allied science requirements than the BA and is designed for students who plan professional employment or advanced study in the geosciences. Graduates seek employment with environmental and water resource management; energy and mineral industries; and government agencies.

Geosciences majors at UWM can organize their electives around a particular area of interest if they wish:

- **Hard Rock** - the study of structural geology, mineralogy, petrology, volcanology and tectonics
- **Hydrogeology** - the study of water resources
- **Paleontology** - the study of evolutionary patterns in history
- **Sedimentary Geology** - the study of rocks, fossils, and landforms in the context of the biological and chemical make-up

Geosciences touches on all aspects of the other natural sciences including chemistry, biology, mathematics and physics, so the ideal student for Geosciences loves all types of science and is curious about how they interrelate. Most Geosciences students also love the outdoors and traveling off of the beaten path.

Required outdoor field work prepares students for jobs with environmental and water resource management; energy and mineral industries; and government agencies.

UWM students often participate in research abroad in places as diverse as Iceland, Turkey, South America, Ireland, and New Zealand. Others gain hands-on experience in the dirt of Montana, the hills of South Dakota or the swamps of Florida.

**Course of Study – Bachelor of Science Degree**
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Arts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**College of Letters & Science Requirements**

I. **English Writing Requirement**
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).
II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
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</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major

The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires...
that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement.**
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Major Requirements**
All students who major in Geosciences must complete at least 15 credits in Geosciences courses at the advanced level (numbered 300 or above) in residence at UWM as part of the 36 advanced-level credits required for the L&S degree. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 301</td>
<td>Principles of Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 302</td>
<td>Elementary Petrology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 316</td>
<td>Introduction to Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 414</td>
<td>Structural Geology (satisfies L&amp;S research requirement)</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 455</td>
<td>Field Geology (normally taken over the summer)</td>
<td>5-8</td>
</tr>
<tr>
<td>GEO SCI 511</td>
<td>Stratigraphy and Sedimentation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**
Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 400</td>
<td>Water Quality</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 401</td>
<td>General Soil Science</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 443</td>
<td>Glacial and Pleistocene Geology</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 463</td>
<td>Physical Hydrogeology</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 464</td>
<td>Chemical Hydrogeology</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 563</td>
<td>Field Methods in Hydrogeology</td>
<td></td>
</tr>
</tbody>
</table>

Select 12 additional credits from Geosciences Department courses at the 300 level or above 12

**Other Requirements**

**Mathematics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

Students are encouraged to take the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td></td>
</tr>
</tbody>
</table>

**Chemistry**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
</tbody>
</table>

Students are encouraged to take courses in organic and physical chemistry

**Physics**

Select one of the following options: 10

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>

Option 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 63-66

1 GEO SCI 455 is required but not offered at UWM. Students must enroll in a field course at another university to satisfy the requirement.

Students are advised strongly to increase their scholastic breadth by selecting courses from among several subdisciplines of the geosciences, in consultation with Geosciences Department faculty.

Students who are interested in general geology are encouraged to include courses from among the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 515</td>
<td>Physical Sedimentology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 520</td>
<td>Introduction to Paleontology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 614</td>
<td>Advanced Structural Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 635</td>
<td>Volcanology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 636</td>
<td>Geochronology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 638</td>
<td>Advanced Igneous Petrology</td>
<td>3</td>
</tr>
</tbody>
</table>

Students are encouraged to consider topics offered under the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 696</td>
<td>Topics in the Geological Sciences:</td>
<td>1-3</td>
</tr>
<tr>
<td>GEO SCI 697</td>
<td>Seminar in the Geological Sciences:</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Students who are interested in environmental geology or hydrogeology are encouraged to include courses from among the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 400</td>
<td>Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 401</td>
<td>General Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 409</td>
<td>Process Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 443</td>
<td>Glacial and Pleistocene Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 463</td>
<td>Physical Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 464</td>
<td>Chemical Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 562</td>
<td>Environmental Surface Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 563</td>
<td>Field Methods in Hydrogeology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.
Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

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All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

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http://uwm.edu/geosciences/undergraduate/

Geosciences, Minor

Many students are already familiar with Geosciences through what is commonly called "earth science" in high school. Geosciences covers our Planet Earth - its soil, minerals, climate change, magnetic fields, earthquakes, water, plants, fossils, volcanoes and more.

Geoscience minors at UWM can organize their electives around a particular area of interest if they wish:

- Hard Rock - the study of structural geology, mineralogy, petrology, volcanology and tectonics
- Hydrogeology - the study of water resources
- Paleontology - the study of evolutionary patterns in history
- Sedimentary Geology - the study of rocks, fossils, and landforms in the context of the biological and chemical make-up

Geosciences touches on all aspects of the other natural sciences including chemistry, biology, mathematics and physics, so the ideal student for Geosciences loves all types of science and is curious about how they interrelate. Most Geosciences students also love the outdoors and traveling off of the beaten path.

For the minor, outdoor field work is not required but is recommended as preparation for jobs with environmental and water resource management; energy and mineral industries; and government agencies.

UWM students often participate in research abroad in places as diverse as Iceland, Turkey, South America, Ireland, and New Zealand. Others gain hands-on experience in the dirt of Montana, the hills of South Dakota or the swamps of Florida.

Requirements
The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work. The minor consists of a minimum of 18 credits in geosciences courses, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 credits at the 200 level or above, with at least 9 of them at the 300 level or higher taken in residence at UWM</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

Contact Information
Current Students contact the Department directly, geo-info@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/geosciences/undergraduate/

Geosciences, MS

The Department of Geosciences offers graduate work emphasizing applied aspects of the hydrologic, geological, and geophysical sciences. The geological sciences concentration prepares students for careers in such areas as engineering and environmental geology, hydrogeology, geophysical exploration, mining and petroleum geology.
The M.S. degree program trains students equally for professional practice and continued graduate study. The typical course of study takes two years to complete. The Ph.D. degree program, with interwoven components in lithospheric and hydrospheric science, is problem oriented rather than specialty oriented: this program is designed to produce scholars and practitioners capable of applying their training to achieve sound and pragmatic solutions to real problems in the earth sciences. Students in the doctoral program will normally spend a minimum of two years of formal coursework, not including dissertation research.

The Department has a variety of geological and geophysical field equipment including a drill rig, portable water sampling and analytical systems, and marine and land-based seismic and electrical resistivity systems. In addition, the Department maintains the following equipment directly or through its association with the UWM Center for Great Lakes Studies: X-ray diffractometer and spectrometer, atomic absorption unit, gas and ion chromatographs, liquid scintillation counter, cold region environmental chambers, operating well field, seismograph, Paleomagnetics laboratory, and recirculating flume.

Supporting facilities in the University include a computing center, scanning electron microscope, a cartographic laboratory, the Saukville Field Station 50 km north of the campus, the Center for Great Lakes Studies, and the Urban Research Center.

The Department also maintains the extensive geological collections of the Greene Geological Gallery and cooperates actively with the Milwaukee County Public Museum.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following departmental requirements to be considered for admission to the program:

- Undergraduate preparation consisting of one year each of: college chemistry, college physics, and calculus; one summer of field training in geology for students majoring in geology.
- Undergraduate grade point average of 3.0 (4.0 scale).
- Submission of scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gmat) (General Test).

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. A geology student who lacks field training must acquire the training not later than the summer following initial enrollment.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned a temporary advisor at the time of initial enrollment and requests a faculty member to serve as the thesis advisor after selecting an area of specialization.

Credits and Courses
Minimum degree requirement is 30 graduate credits, at least 24 of which must be earned in formal course credits and up to 6 of which may be earned through an acceptable thesis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formal Course Credits</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>GEO SCI 990*</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

* A graduate student is allowed to register for a maximum of nine 990 research credits, no more than 6 of which may be counted toward the 30-credit requirement.

All students in their second or later year are required to present a progress report annually to the Department.

Proposal for Thesis
Prior to the formal undertaking of thesis research, the student must prepare a written proposal for the thesis problem including an estimate of costs to be incurred. Copies of the proposal are to be distributed to the faculty advisor and the Department reading file. One copy is to be placed in the student's permanent Department file. An abstract of the proposal is to be distributed to each Department faculty member for comment and criticism.

Thesis
The student must write an acceptable thesis embodying the results of original research completed under the direction of the advisor.

Comprehensive Examination
The student must pass a comprehensive examination, either oral or written or both. In part a defense of the thesis, the examination covers the student's entire graduate program of studies. At the option of the student, the part of the examination consisting of the presentation of the results of thesis research may be open to other graduate students.

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

Geosciences, PhD
The Department of Geosciences offers graduate work emphasizing applied aspects of the hydrologic, geological, and geophysical sciences. The geological sciences concentration prepares students for careers in such areas as engineering and environmental geology, hydrogeology, geophysical exploration, mining and petroleum geology.

The M.S. degree program trains students equally for professional practice and continued graduate study. The typical course of study takes two years to complete. The Ph.D. degree program, with interwoven components in lithospheric and hydrospheric science, is problem oriented rather than specialty oriented: this program is designed to produce scholars and practitioners capable of applying their training to achieve sound and pragmatic solutions to real problems in the
earth sciences. Students in the doctoral program will normally spend a minimum of two years of formal coursework, not including dissertation research.

The Department has a variety of geological and geophysical field equipment including a drill rig, portable water sampling and analytical systems, and marine and land-based seismic and electrical resistivity systems. In addition, the Department maintains the following equipment directly or through its association with the UWM Center for Great Lakes Studies: x-ray diffractometer and spectrometer, atomic absorption unit, gas and ion chromatographs, liquid scintillation counter, cold region environmental chambers, operating well field, seismograph, Paleomagnetics laboratory, and recirculating flume.

Supporting facilities in the University include a computing center, scanning electron microscope, a cartographic laboratory, the Saukville Field Station 50 km north of the campus, the Center for Great Lakes Studies, and the Urban Research Center.

The Department also maintains the extensive geological collections of the Greene Geological Gallery and cooperates actively with the Milwaukee County Public Museum.

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

To be considered for admission to the program, an applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements:

1. Hold a master’s degree in one of the natural sciences, engineering, or mathematics or have equivalent experience.
2. Have an appropriate background in aspects of the geosciences relevant the intended field of study.
3. Submit scores from the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (general test).
4. Arrange to have at least three (3) letters of recommendation sent to the Graduate Coordinator of the Department of Geosciences.

Exceptional students without a M.S. degree may be considered for admission. A student who holds a master’s degree from UWM must formally reapply for admission to the Graduate School before continuing studies toward the Ph.D.

**Credits and Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credits taken from formal master’s study</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>At least 21 formal graduate credits beyond the master’s degree</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Elective and GEO SCI 998 Doctoral Dissertation credits</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>54</td>
</tr>
</tbody>
</table>

Doctoral students must earn 54 credits beyond the bachelor’s degree, of which 24 credits may be taken from formal coursework completed as part of the master’s study. At least 21 graduate credits beyond the master’s degree must be earned in formal coursework.

Each student must prepare a formal Program of Study to be submitted to the Graduate School within the first semester in the program. Courses are selected in consultation with the student’s advisor with approval from the Doctoral Committee. Students are strongly advised to take courses from each of their committee members prior to taking the doctoral preliminary examination. For full time students, coursework should be completed within 4 semesters after admission to the Ph.D. program. In unusual situations, this timetable may be extended beyond 4 semesters. A timetable for coursework completion for part time students will be established on an individual basis.

**Residency Requirement**

The Graduate School requires satisfaction of a residency requirement. This involves completing at least 8 graduate credits in 2 consecutive semesters or 6 graduate credits in 3 consecutive semesters (including summer sessions) while in full doctoral status at UWM. In addition, at least half of the graduate credits required for the Ph.D. must be earned at UWM.

**Quantitative Skill**

A working knowledge of computer programming, statistics, numerical methods, or GIS appropriate to the student’s field of study is required. Standards for this requirement will be established by the student’s Doctoral Committee. Undergraduate courses taken to meet this requirement do not apply to the course requirements for the Ph.D.

**Doctoral Committee**

The membership of the Doctoral Committee will be established in the student’s first semester. The Committee must consist of the following:

- the doctoral student’s advisor as chair (or co-advisors as co-chairs);
- at least three additional graduate faculty members from the Geosciences Department; and
- at least one member from outside the student’s fields of specialization.

The student is required to arrange a meeting with the Doctoral Committee at least once each year.

The student may request a change of advisor if another faculty member is available, willing, and able to assume that role. If this change involves a significant modification of the area of specialization or research, the student’s record will be reexamined to determine whether the student’s background is sufficient for the new specialty. If it is not, it may be necessary for the student to withdraw from the program and reapply in the new specialty. Normally such a change of direction will not be allowed once the dissertation proposal has been defended.

**Doctoral Preliminary Examination**

Advancement to dissiator status requires that students must pass a doctoral preliminary examination and then develop and successfully defend a dissertation proposal. The doctoral preliminary examination is administered in two parts: a set of written exams and a follow-up oral exam. The structure of the examination will be established by the student’s Doctoral Committee. It must be passed prior to the completion of 24 credits in the program and must demonstrate knowledge in the fields of geology and related sciences defined by the Doctoral Committee. The written and oral exams are taken after the residency requirement is fulfilled.

Subsequently, the student must present to the Doctoral Committee a written proposal in NSF format for her/his dissertation research. At a minimum, it should provide an overview of and approach to the problem being addressed, a budget, and appropriate bibliographic references.
The dissertation proposal should be defended within one semester of completion of the preliminary exam. Students who successfully pass all three elements of the doctoral preliminary examination are admitted to doctoral dissertator status.

**Annual Presentation of Results**
Each dissertator is required to make a 30-minute presentation of research results at a Geosciences Colloquium each year. Dissertators also are required to make a 50-minute colloquium presentation of the results of the completed doctoral research prior to the dissertation defense.

**Dissertation**
The candidate must present a written dissertation reporting the results of independent, original research carried out under the direction of the major professor. Prior to a defense, the dissertation must be reviewed by a Reading Committee consisting of the major professor and at least two other members of the Doctoral Committee. Information regarding dissertation deadlines, preparation, and review of the dissertation is available from the Student Services Office of the Graduate School.

**Dissertation Defense**
The student first will present research results in a colloquium. Then the dissertation must be orally defended before the entire Doctoral Committee. The defense may include questions related to any of the dissertator’s fields of study. If the dissertation is defended and the oral examination is passed to the satisfaction of a majority of the Doctoral Committee, the candidate is passed and recommended for the degree.

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

**Additional Requirements and Information**
Detailed information about program requirements is provided to each student following admission and is available from the Department office. For additional information on Graduate School Ph.D. requirements, see the Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements) Webpage.
GLOBAL STUDIES

The College of Letters and Science, together with several of UWM’s professional schools, offers a Bachelor of Arts and a Minor in Global Studies. These programs are designed to combine the acquisition of leadership, management, and communication skills with an in-depth understanding of global issues. Students in these programs will be uniquely prepared for careers in an increasingly integrated world.

Programs

- Global Health, Undergraduate Certificate (College of Letters and Science) (p. 1436)
- Global Studies, BA (p. 1438)
- Global Studies, Minor (p. 1450)

Global Studies Courses

GLOBAL 101 Introduction to Global Studies I: People and Politics
3 cr. Undergraduate.
Fundamental aspects of globalization; how economic, political, and cultural globalization affects contemporary societies.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GLOBAL 190 Think Tank Learning Community I:
1 cr. Undergraduate.
Integration of social, artistic, and cultural forces into global business, economics, politics etc; discussion of case studies with working professionals.
Prerequisites: fr st only.
Course Rules: Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to sophs, jrs, or srs.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GLOBAL 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2012.
Current Offerings: http://uwm.edu/schedule

GLOBAL 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Spring 2006.
Current Offerings: http://uwm.edu/schedule

GLOBAL 194 First-Year Seminar:
3 cr. Undergraduate.
Selected topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

GLOBAL 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult the program director.
Prerequisites: 2.5 GPA; wrt cons instr, prog dir, & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GLOBAL 201 Introduction to Global Studies II: Economics and the Environment
3 cr. Undergraduate.
Link between international trade and environmental change; conditions related to global economy; political impact of environmental change; human dimensions of international trade and environmental change.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GLOBAL 202 Introduction to Global Studies III: Globalization and Technology
3 cr. Undergraduate.
Globalization and information technology; history of and current trends in global transfer of technology; contemporary issues in information technology; media convergences and divisions.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

GLOBAL 289 Internship in Global Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: Global 101(P); 2.25 gpa; cons supervising faculty member.
Course Rules: Min 40 hrs in internship req’d for 1 cr. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GLOBAL 290 Think Tank Learning Community II:
1 cr. Undergraduate.
Application of concepts of globalization to case studies presented by working professionals.
Prerequisites: soph st only.
Course Rules: Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, jrs, or srs.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GLOBAL 298 Internship in Global Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: Global 101(P); 2.25 gpa; cons supervising faculty member.
Course Rules: Min 40 hrs in internship req’d for 1 cr. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GLOBAL 299 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult the program director.
Prerequisites: 2.5 GPA; writ cons instr, prog dir, & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule
GLOBAL 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

GLOBAL 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

GLOBAL 311 Contexts for Global Management
3 cr. Undergraduate.
How globalization can impact the success or failure of business decisions; how business decisions can impact globalization; management in a global context.
Prerequisites: jr st.
Last Taught: Spring 2018, Spring 2017, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

GLOBAL 321 The Global City in History
3 cr. Undergraduate.
Key issues in history of the global city from Mesopotamia to the age of globalization; changing role of urban centers; global dimensions of Milwaukee's history.
Prerequisites: jr st.
Last Taught: Fall 2011, Fall 2010, Spring 2008.
Current Offerings: http://uwm.edu/schedule

GLOBAL 351 Language, Media, and Social Practice in Global Communications
3 cr. Undergraduate.
Explores the impact of global communications on languages and cultures; examines implications of globalization for technologically mediated forms of communication and related social practices.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GLOBAL 361 Environment and Sustainability
3 cr. Undergraduate/Graduate.
Different answers to 'what is sustainability?' given by ecological and social thinkers.
Prerequisites: jr st.
Last Taught: Fall 2014.
Current Offerings: http://uwm.edu/schedule

GLOBAL 362 System Failure: Globalization and Language Extinction
3 cr. Undergraduate/Graduate.
Role of globalization in the projected extinction of a large number of the world's languages within the next century.
Prerequisites: jr st; a course in social science; a course in linguistic anthro; or cons instr.
Course Rules: AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2014, Spring 2012.
Current Offerings: http://uwm.edu/schedule

GLOBAL 371 Rethinking Global Security
3 cr. Undergraduate.
Basic concepts for international security in the age of globalization; sources of security and insecurity from a historical perspective.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

GLOBAL 390 Think Tank Learning Community III:
1 cr. Undergraduate.
Application of concepts of globalization to case studies presented by working professionals.
Prerequisites: jr st only.
Course Rules: Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 290, 390, & 490. Not open for cr to fr, sophs, or srs.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GLOBAL 421 Cities in the Global Economy
3 cr. Undergraduate.
How and why globalization leaves different imprints on cities; how cities in turn constantly restructure the form of the global economy.
Prerequisites: jr st.
Course Rules: Anthro 421 & Global 421 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Spring 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GLOBAL 439 Culture and Global Health
3 cr. Undergraduate/Graduate.
Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease.
Prerequisites: jr st.
Course Rules: Anthro 439 & Global 439 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Spring 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GLOBAL 442 Humanitarianism in Global Perspective
3 cr. Undergraduate/Graduate.
Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking.
Prerequisites: jr st; a social science course (P).
Course Rules: Anthro 442 & Global 442 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Spring 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule
GLOBAL 443 Medicine and Pharmaceuticals in the Global Age
3 cr. Undergraduate/Graduate.
The practices of medicine and the distribution of pharmaceuticals globally.
Prerequisites: jr st; Anthro 440(R).
Course Rules: Anthro 443 & Global 443 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Spring 2015.
Current Offerings: http://uwm.edu/schedule

GLOBAL 446 The Re-Configuring Global Order
3 cr. Undergraduate/Graduate.
Contemporary and past global forces re-configuring our world systems and economic and political orders.
Prerequisites: jr st
Last Taught: Summer 2014.
Current Offerings: http://uwm.edu/schedule

GLOBAL 447 The Global Politics of Human Rights
3 cr. Undergraduate/Graduate.
Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.
Prerequisites: jr st; Anthro 102(R).
Course Rules: Anthro 447 & Global 447 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2014, Spring 2012, Fall 2007.
Current Offerings: http://uwm.edu/schedule

GLOBAL 448 Intellectual Property in the Global Information Economy
3 cr. Undergraduate/Graduate.
Emerging conflicts between the intellectual property rules and new information technologies; all aspects - copyright, patent, trademarks - in global contexts of biotechnology, software, print, digital media, and music industries.
Prerequisites: jr st.
Last Taught: Fall 2013, Summer 2011, Fall 2008.
Current Offerings: http://uwm.edu/schedule

GLOBAL 449 Internship in Global Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 6 cr Global 300-level or above; 2.5 gpa; cons supervising faculty member.
Course Rules: Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GLOBAL 450 Think Tank Learning Community IV
1-6 cr. Undergraduate.
Application of concepts of globalization to case studies presented by working professionals.
Prerequisites: sr st only.
Course Rules: Retakable to 4 cr max w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, sophs, or jrs.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GLOBAL 451 Access, Security, and Intercultural Contexts in Global Communications
3 cr. Undergraduate.
Information equity and access in a globalized context, including issues of security, intercultural communication, and current uses of communication technologies.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

GLOBAL 461 The Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for global sustainability.
Prerequisites: jr st; CES 210(P) or cons instr.
Course Rules: CES 461, FrshWr 461, & Global 461 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Spring 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

GLOBAL 467 Strategies for Realizing Security in Global Contexts
3 cr. Undergraduate.
Present-day strategies of those working to create or effect greater security in a global context.
Prerequisites: jr st.
Last Taught: Fall 2016, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

GLOBAL 488 Elective Internship in Global Studies
1-6 cr. Undergraduate.
Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 6 cr Global 300-level or above; 2.5 gpa; cons supervising faculty member.
Course Rules: Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GLOBAL 489 Internship in Global Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 6 cr Global 300-level or above; 2.5 gpa; cons supervising faculty member.
Course Rules: Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

GLOBAL 490 Think Tank Learning Community IV
1 cr. Undergraduate.
Application of concepts of globalization to case studies presented by working professionals.
Prerequisites: sr st only.
Course Rules: Retakable to 4 cr max w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, sophs, or jrs.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

GLOBAL 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GLOBAL 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2008, Fall 2005.
Current Offerings: http://uwm.edu/schedule
GLOBAL 500 Global Studies Capstone Seminar
3 cr. Undergraduate.
Integration of coursework in the Global Studies curriculum. Majors enroll in designated section for their Global Studies track.
Prerequisites: jr st; declared global studies major; or cons instr.
Course Rules: Not retakable.
Current Offerings: http://uwm.edu/schedule

GLOBAL 541 Cross-Cultural Management
3 cr. Undergraduate.
Business cultures around the world; the impact of cultural differences in international management and negotiations.
Prerequisites: jr st; Bus Adm 330(P); admis to Bus Adm major or declared Global Studies program.
Course Rules: Bus Adm 541 & Global 541(411) are jointly offered; they count as repeats of one another.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

GLOBAL 550 Global Studies Integrated Capstone:
3 cr. Undergraduate/Graduate.
Integration of coursework for students in the Global Communications, Health, Security, Sustainability, and Urban Development tracks.
Prerequisites: jr st; satisfaction of OWC-A GER; declared Global Studies major or cons instr.
Course Rules: May be taken w/chg in topic to 6 cr max.
General Education Requirements: OWC
Current Offerings: http://uwm.edu/schedule

GLOBAL 551 Global Communications Capstone: Future Trends
3 cr. Undergraduate.
Global Studies-Global Communications capstone. Communication challenges that constitute & complicate global experiences; ways to respond in a manner that demonstrates competence as global communicators.
Prerequisites: jr st; declared Global Studies major; or cons instr.
Course Rules: Counts as a repeat of Global 500 w/same topic.
Current Offerings: http://uwm.edu/schedule

GLOBAL 561 Preparing for Sustainable Peacebuilding and Social Change
3 cr. Undergraduate/Graduate.
Analytical framework for understanding the key social dynamics that affect sustainable social change.
Prerequisites: jr st; Global 361(P) & 461(P), or cons instr.
Last Taught: Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

GLOBAL 571 Global Security Capstone: Future Trends
3 cr. Undergraduate.
Global Studies-Global Security capstone. Examination of justice and power broadly defined as they pertain to emerging trends & efforts to address anticipated problems.
Prerequisites: jr st; declared Global Studies major; or cons instr.
Course Rules: Counts as a repeat of Global 500 w/same topic.
General Education Requirements: OWC
Current Offerings: http://uwm.edu/schedule

GLOBAL 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying or interning abroad to receive course credit at appropriate level.
Prerequisites: jr st; Global Studies or MSP advisor approval.
Course Rules: Retakable with change in topic.
Current Offerings: http://uwm.edu/schedule

GLOBAL 599 Advanced Independent Study
1-3 cr. Undergraduate.
See Independent Study in current catalog. For further information, consult Global Studies Coordinator.
Prerequisites: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2016, Fall 2013, Summer 2013.
Current Offerings: http://uwm.edu/schedule

Global Health, Undergraduate Certificate (College of Letters and Science)

Anne Dressel, Director, Center for Global Health Equity, Nursing, Certificate Coordinator
Deatra Holloway, Senior Advisor, Nursing, CUN 129

Global Health is an interdisciplinary undergraduate certificate administered by the Director of the Center for Global Health Equity and the Global Health Advisory Committee (GHAC).

The world is economically, politically, culturally, and technologically connected and interdependent with increasingly mobile populations seeking economic opportunity, security, and safety as a result of civil unrest, regional conflicts, diminished natural resources, poverty, and disease. Although some health problems and issues remain specific to levels and contexts of socio-cultural, economic, and political development within countries, many of the same problems, issues, and concerns transcend geographic boundaries, as should appropriate approaches and solutions. The concept of “global health” describes and addresses these realities. An undergraduate certificate in Global Health will provide students with academic inquiry into:

- the global burden of disease
- the social determinants of health in a global context
- the principles, language, and measurement tools used in global health
- ethics and global health
- the global cultural, religious, and historical contexts of health, disease, and health care

The Global Health Certificate will provide undergraduate students with an opportunity to focus on current global health issues and concerns, policies, processes, programs, and practices that contribute to and hinder global health improvement. A wide array of courses will help students...
better comprehend the interdisciplinary approach to understanding and addressing global health issues.

Eligibility

The Global Health Certificate is intended to enhance a bachelor's degree. The certificate is available to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate upon completion of the program requirements.

Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 21 credits in approved Global Health courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, 9 must be taken at the 300 level or above. A minimum of 6 credits must be taken in the College of Letters and Science. A minimum of 6 credits must be taken in the College of Nursing. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on global health issues may be accepted with the approval of the Certificate Program Coordinator. Other courses not on this list but relevant to the study of global health may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the approval of this program may count those courses toward completion of the certificate requirements.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 110</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>World Regions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td></td>
</tr>
<tr>
<td>HIST 132</td>
<td>World History Since 1500</td>
<td></td>
</tr>
<tr>
<td>POL SCI 106</td>
<td>Politics of the World's Nations</td>
<td></td>
</tr>
<tr>
<td>SOCIO 103</td>
<td>World Society</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select a minimum of 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Fieldwork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internship</td>
<td>3</td>
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</tr>
</tbody>
</table>

Study Abroad

Independent Study

Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 475</td>
<td>Global Health: Ethics and Human Rights</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 21

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 439</td>
<td>Culture and Global Health</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>BMS 204</td>
<td>Plagues, Pandemics, and Epidemics</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 375</td>
<td>Global Violence, Disease, and Death</td>
<td>3</td>
</tr>
<tr>
<td>NURS 440</td>
<td>Nursing Specialty</td>
<td>2</td>
</tr>
<tr>
<td>NURS 497</td>
<td>Study Abroad</td>
<td>3</td>
</tr>
<tr>
<td>NURS 620</td>
<td>Global Food Security and Systems</td>
<td>3</td>
</tr>
<tr>
<td>PH 303</td>
<td>Climate Change, the Environment and Human Health</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 374</td>
<td>Health, Wealth, and Democracy</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 472</td>
<td>Population and Society</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
<td>3</td>
</tr>
</tbody>
</table>

Fieldwork

Students are required to do an internship, self-designed research project, or study abroad (for a minimum of 3 credits at the 300-level or above) in the field of global health. The purpose of this requirement is to enable the student to engage in global health work through "practical" experience or research. The area of study must be approved by the coordinator of the Global Health Certificate and must meet the requirements of the department through which it is being completed.

The fieldwork requirement can be fulfilled in one of three ways:

- Internship – A number of global health internships are available through the International Studies Major (INTLST 450), as well as other departments and organizations.
- Study Abroad – UWM offers a number of Global Health study abroad programs, through several departments.
- Independent Study – The student may propose a global health research project to a professor in an area of interest. The independent study also must be discussed with and approved by the Global Health Certificate Coordinator.
Global Studies, BA

UWM’s Global Studies programs combines the benefits of a liberal arts education with the training of a professional program to prepare students to work internationally or domestically on matters that cross borders and cultures. The College of Letters and Science and several of UWM’s professional schools have formed a partnership to offer students this unique program of study that will prepare them for positions of global leadership in our increasingly interconnected world.

At UWM, Global Studies is a rigorous program that incorporates classes across disciplines, a required study abroad experience, and extensive foreign language requirements. This challenging but rewarding program prepares students to excel in a job market that demands knowledge across subject areas and a culturally sensitive and savvy approach. The analytical, communication, and cultural awareness knowledge and skills acquired through the Global Studies degree will serve students well in any area of work.

Students at UWM choose from one of six tracks:

- Global Communications - with a focus on language, culture and the technology of modern, global communication (option for a joint degree between the College of Letters and Science and the School of Information Studies)
- Global Management - focusing on business and the world economy (joint degree between the College of Letters and Science and the Sheldon B. Lubar School of Business)
- Global Security - dealing with aspects of conflict and change such as water resources, war, human rights, borders, and global health
- Global Sustainability - where students develop expertise in matters of the environment and government systems
- Global Urban Development - an ideal choice for students interested in cities, population growth, architecture, and urban planning (joint degree between the College of Letters and Science and the School of Architecture and Urban Planning)
- Global Health - a track for students interested in global careers in healthcare, international aid, healthcare policy, international health education, health outreach, and international health regulations (option for a joint degree between the College of Letters and Science and the College of Nursing)

Students often wonder what the differences are between Global Studies and International Studies. In addition to the specialties mentioned above that are available to Global Studies students, in the Global Studies program, students are required to reach foreign language fluency equivalent to the eighth semester of study and are required to complete a study abroad and an international internship experience.

Requirements

Major Requirements

To earn the Bachelor of Arts in Global Studies, students in all tracks must complete 120 credits, including a minimum of 36 credits in upper-division courses (numbered 300 or above), while fulfilling the requirements below. GPAs of at least 2.000 overall and 2.500 in the selected track are required for graduation. Students also are responsible for completing the University-wide General Education Requirements (p. 33).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOBAL 101</td>
<td>Introduction to Global Studies I: People and Politics (SS)</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 201</td>
<td>Introduction to Global Studies II: Economics and the Environment (SS)</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 202</td>
<td>Introduction to Global Studies III: Globalization and Technology (SS)</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 550</td>
<td>Global Studies Integrated Capstone:</td>
<td>3</td>
</tr>
</tbody>
</table>

World Regions

Select one of the following:

- GEOG 110 The World: Peoples and Regions (SS)
- HIST 132 World History Since 1500 (HU)
- POL SCI 106 Politics of the World’s Nations (SS)

Foreign Language

Select one of the following options:

Option 1:

- One Language: Eight semesters (or equivalent) of a single foreign language with passing grades

Option 2:

- Two Languages: First- through sixth-semester (or equivalent) of a first language other than English and two semesters (or equivalent) in a second language other than English, all with passing grades

Study Abroad

Select a minimum of 12 credits while studying abroad 12

International Internship

Select a 3-credit internship at a location outside of the U.S 3

Tracks

Select one of the following tracks:

- Global Communications
- Global Health
- Global Management
- Global Security
- Global Sustainability
- Global Urban Development

Total Credits 30

1 The internship normally will be completed during the semester abroad, in the summer following the semester abroad, or in the senior year.

Tracks Core Curricula

Additional requirements designated for each track appear in the sections below. Under track core curriculum, students are required to complete only the requirements for their elected track.

Global Communications Track

To earn the Bachelor of Arts in Global Studies through the Global Communications track, students must complete the following requirements.
**Global Communications Track Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 451</td>
<td>Access, Security, and Intercultural Contexts in Global Communications</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 551</td>
<td>Global Communications Capstone: Future Trends</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following: 6

- BUS ADM 230, Introduction to Information Technology Management
- COMMUN 103, Public Speaking
- COMMUN 105, Business and Professional Communication
- ENGLISH 205, Business Writing
- ENGLISH 206, Technical Writing
- ENGLISH 214, Writing in the Professions: (with appropriate subtitle)
- ENGLISH 431, Topics in Advanced Communications: (with appropriate subtitle)
- ENGLISH 435, Rhetoric and Professional Writing
- ENGLISH 436, Technical Documentation
- ENGLISH 449, Internship in the Humanities
- JAMS 201, Media Writing
- INFOST 110, Introduction to Information Science and Technology
- INFOST 250, Internet Communications and Information Transfer

**Global Communications Track Electives**

Select 24 credits (see below) 24

Total Credits 45

1 At least one writing course must be selected.

**Global Communications Electives**

Students must complete 24 credits from the following lists of courses, with a minimum of 15 credits taken from List A. There is no minimum number of credits that must be selected from Lists B-E. Electives from Lists C-E should be courses about the country or region in which the student will pursue language study and/or study abroad. Any individual course may count only once toward degree requirements. Students in this track who are awarded their degree by L&S only must complete at least 36 credits in L&S upper-division (numbered 300 or above) courses.

**List A**

(A minimum of 15 credits must be completed from the following):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/LINGUIS 570</td>
<td>Issues in Bilingualism</td>
<td>3</td>
</tr>
<tr>
<td>ART 227</td>
<td>Design Workshop: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ART 309</td>
<td>Issues in Contemporary Art:</td>
<td>3</td>
</tr>
<tr>
<td>ART 393</td>
<td>Digital Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 230, Introduction to Information Technology Management (if not selected above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 335, Visual System Development</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 360, Principles of Marketing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 433, Information Technology Project Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 465, International Marketing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 467, Marketing Seminar: (with appropriate subtitle)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 495, Special Topics in Business: (with appropriate subtitle)</td>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 496, International Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 530, Introduction to eBusiness</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 531, Developing Web Applications Using Web Services</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 532, Web Development for Open Business Systems</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 533, Information Technology Infrastructure for Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHINESE 441, Business Chinese</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMMUN 192, First-Year Seminar: (&quot;The Digital Mirror&quot; subtitle)</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 313, Human Communication and Technology</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 350, Intercultural Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 380, Honors Seminar: (&quot;The Social History of the Internet&quot; subtitle)</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 402, Gender and Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 410, Organizational Communication Technology</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 413, Rhetoric and the Internet</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 450, Cross-Cultural Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 550, International and Global Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 655, Cultural Training and Adjustment</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMMUN 665, Introduction to Mediation</td>
<td>3</td>
<td></td>
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<tr>
<td>COMMUN 675, Communication in International Mediation and Peacebuilding</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>DANCE 370, World Movement Traditions:</td>
<td>2-3</td>
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</tr>
<tr>
<td>ENGLISH 214, Writing in the Professions: (with appropriate subtitle) (if not selected above)</td>
<td>3</td>
<td></td>
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<tr>
<td>ENGLISH 431, Topics in Advanced Communications: (with appropriate subtitle) (if not selected above)</td>
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<td></td>
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<tr>
<td>ENGLISH 435, Rhetoric and Professional Writing (if not selected above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 436, Technical Documentation (if not selected above)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 437, Project Management for Professional Writers</td>
<td>3</td>
<td></td>
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<tr>
<td>ENGLISH 439, Information Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 449, Internship in the Humanities (if not selected above)</td>
<td>1-4</td>
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<tr>
<td>FILM 203, Media Workshop: (with appropriate subtitle)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
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<tr>
<td>FILM 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILM 255</td>
<td>Introduction to Digital Arts</td>
<td>3</td>
</tr>
<tr>
<td>FINEART 327</td>
<td>Digital Media Workshop: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FLL 216</td>
<td>Survey of Civilization: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 311</td>
<td>French for International Business/Professional Communication: Oral Emphasis</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 361</td>
<td>French for International Business/Professional Communication: Writing Focus</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 415</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 465</td>
<td>Introduction to Translation: English to French</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 225</td>
<td>The Language of Maps</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 425</td>
<td>Introduction to German Translation</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 525</td>
<td>Seminar in Advanced German Translation</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 672</td>
<td>German for Professional Purposes</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 311</td>
<td>Contexts for Global Management</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 448</td>
<td>Intellectual Property in the Global Information Economy</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 541</td>
<td>Cross-Cultural Management</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 313</td>
<td>Translation: Italian-English, English-Italian</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 101</td>
<td>Introduction to Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 201</td>
<td>Media Writing (if not selected above)</td>
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<td>JAMS 210</td>
<td>Jewish and Ethnic Narratives and Identities in Media</td>
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<td>Publication Design</td>
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<td>Photojournalism</td>
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<td>Principles of Media Studies</td>
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<td>Persuasive Media Writing and Production</td>
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<td>Language and Society</td>
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<td>The Social Organization of Technology: A Comparative Perspective</td>
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<td>TRNSLTN 530</td>
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**List B**

**Topical Electives:**

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<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
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<td>3D Imaging I</td>
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<td>Organizations</td>
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<td>BUS ADM 436</td>
<td>Systems Analysis and Design</td>
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<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (with appropriate subtitle)</td>
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<td>Literatures and Cultures of the Americas: (with appropriate subtitle)</td>
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<td>Film-Fiction Interaction: (with appropriate subtitle)</td>
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<td>Introduction to the Internet and the World Wide Web</td>
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<td>Intermediate Computer Programming</td>
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<td>First-Year Seminar: (with appropriate subtitle)</td>
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<td>Global Englishes</td>
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<td>World Cinema: (with appropriate subtitle)</td>
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<td>Theories of Mass Culture: (with appropriate subtitle)</td>
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<td>Theories of Language and Literature: (with appropriate subtitle)</td>
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<td>Language, Power, and Identity</td>
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<td>Editing and Publishing</td>
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<td>Women Writers: (with appropriate subtitle)</td>
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<td>Seminar in Literature and Culture: (with appropriate subtitle)</td>
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<td>Video in the Classroom</td>
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<td>Spatial Interactivity II</td>
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<td>Internet Communications and Information Transfer</td>
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<td>Special Topics in Information Science: (with appropriate subtitle)</td>
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<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
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<td>Reading Japanese Short Stories</td>
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<td>Gender and the Media</td>
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<td>Global Media</td>
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<td>Internet Culture</td>
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<td>Journalism, Documentary, and Democracy</td>
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<td>Selected Topics in Mass Communication: (with appropriate subtitle)</td>
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<td>Race and Ethnicity in the Media</td>
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<td>JAMS 659</td>
<td>Seminar in Comparative Media Law</td>
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<td>The Diversity of Human Language</td>
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<td>Aspects of Language: (with appropriate subtitle)</td>
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<td>Power of Words</td>
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<td>Introduction to Linguistics</td>
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<td>Language in Its Various Forms: (with appropriate subtitle)</td>
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<td>Analog and Digital Synthesis I</td>
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<td>Digital Synthesis and Systems II</td>
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<td>SPANISH 341</td>
<td>Introduction to Hispanic Linguistics</td>
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**List C**

*Area Studies Electives:*

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<td>Survey of African Societies and Cultures</td>
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<td>AFRICOL 311</td>
<td>African Religious Thought and Social Organizations</td>
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<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
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<td>AFRICOL 450</td>
<td>Cultural Transmissions: Black Africa and Black America</td>
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<td>ANTHRO 320</td>
<td>Peoples and Cultures of Africa</td>
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<td>ANTHRO 322</td>
<td>Europe in Anthropological Perspective</td>
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<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
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<td>Peoples and Cultures of South Asia</td>
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<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
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<td>HIST 378</td>
<td>Revolution in China</td>
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<td>The History of Southern Africa</td>
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<td>History of Mexico</td>
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<td>The Arab-Israeli Conflict</td>
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<td>The Jews of Modern Europe: History and Culture</td>
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**List D**

*Foreign Language Electives - Up to 6 credits beyond those taken to meet the foreign language requirement of upper-division courses (300 level or fifth semester and above) on contemporary culture or literature in a foreign language may count as electives for this track, provided that the language of instruction is not English. The following are recommended; however, see program listings in this catalog for a complete list:*

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<td>CHINESE 320</td>
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<td>FRENCH 324</td>
<td>Contemporary French Language and Culture</td>
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<td>FRENCH 426</td>
<td>Growing Up French</td>
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<td>FRENCH 427</td>
<td>Advanced Written Expression</td>
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<td>FRENCH 431</td>
<td>Seminar in Literature of the Francophone World: (with appropriate subtitle)</td>
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FRENCH 432 Seminar in French and Francophone Cultures: (with appropriate subtitle) 1-3
FRENCH 450 Institutions and Culture of Contemporary France 3
FRENCH 592 Seminar in French Language: (with appropriate subtitle) 3
GERMAN 331 Intermediate German Grammar and Usage 3
GERMAN 332 Intermediate Conversation and Composition 3
GERMAN 333 Analysis of German Texts 3
GERMAN 334 Introduction to German Language and Culture 3
GERMAN 360 German for the Global World 3
GERMAN 410 German Cultural History 3
GERMAN 415 Topics in German Civilization: (with appropriate subtitle) 3
GERMAN 672 German for Professional Purposes 3
ITALIAN 312 Contemporary Italian Language and Culture 3
ITALIAN 629 Major Film Directors: (with appropriate subtitle) 3
PORTUGS 360 Luso-Brazilian Culture: (with appropriate subtitle) 3
PORTUGS 457 Seminar in Luso-Brazilian Literature 3
SPANISH 315 Spanish Immersion Experience 1
SPANISH 470 Survey of Hispanic Literature and Civilization 3
SPANISH 472 Survey of Spanish-American Literature and Civilization 3
SPANISH 474 Survey of Spanish Literature and Civilization 3
SPANISH 491 Topics in Hispanic Culture: 3

List E

**Literature-in-Translation – Credits in 100-level courses may be elected only prior to the student’s study abroad:**

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<td>COMPLIT 233</td>
<td>Literature and Film: (with appropriate subtitle)</td>
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<td>Seminar in Literature and Cultural Experience: (with appropriate</td>
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<td>COMPLIT 365</td>
<td>Literatures and Cultures of the Americas: (subtitle)</td>
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<td>Views of France: (subtitle)</td>
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<td>FRENCH 357</td>
<td>Literature of the French-Speaking World in Translation: (subtitle)</td>
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<td>Cinema of the French-Speaking World: (with appropriate subtitle)</td>
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<td>GERMAN 112</td>
<td>German Life and Civilization: Part II:</td>
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<td>Studies in Hebrew Culture: (with appropriate subtitle)</td>
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<td>Views of Italy: (with appropriate subtitle)</td>
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<td>Italian Fictions: (with appropriate subtitle)</td>
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<td>Contemporary Italian Society and Culture</td>
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<td>JAPAN 200</td>
<td>Japanese Culture and Its Effect on Language</td>
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<td>Polish Culture in its Historical Setting</td>
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<td>PORTUGS 225</td>
<td>Understanding Brazil: (with appropriate subtitle)</td>
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<td>Luso-Brazilian Literature in Translation: (with appropriate subtitle)</td>
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<td>RUSSIAN 245</td>
<td>Russian Life and Culture</td>
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<td>SPANISH 225</td>
<td>Understanding the Hispanic World:</td>
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**Global Health Track**

To earn the Bachelor of Arts in Global Studies through the Global Health track, students must complete the requirements listed below. Students in this track must complete at least 36 credits at the 300-level or higher, of which 24 credits must be in the College of Letters and Science.

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<td>PH 101</td>
<td>Introduction to Public Health</td>
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<td>BMS 232</td>
<td>Introduction to Nutrition</td>
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<td>NURS 401</td>
<td>Global Patterns of Disease</td>
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<td>NURS 475</td>
<td>Global Health: Ethics and Human Rights</td>
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<td>GLOBAL/ANTHRO 439</td>
<td>Culture and Global Health</td>
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<td>GLOBAL 550</td>
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<td>Global Maternal and Child Health: From Evidence to Action</td>
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<td>NURS 620</td>
<td>Global Food Security and Systems</td>
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<td>PH 303</td>
<td>Climate Change, the Environment and Human Health</td>
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<tr>
<td>PH 319</td>
<td>Introduction to Health Disparities</td>
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Select 15 credits (see below) 15

Total Credits 48

**Global Health Electives**

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<td>AFRICOL 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
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<td>ANTHRO 156</td>
<td>Food and Culture</td>
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<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
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<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
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<td>Humanitarianism in Global Perspective</td>
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<td>Medicine and Pharmaceuticals in the Global Age</td>
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<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
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<td>COMMUN 681</td>
<td>Seminar in Communication in a World of AIDS</td>
<td>3</td>
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<td>ECON 353</td>
<td>Economic Development</td>
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<td>ETHNIC 375</td>
<td>Global Violence, Disease, and Death</td>
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<td>Introduction to Food Studies</td>
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<tr>
<td>GEOG 115</td>
<td>Globalization and Economic Development</td>
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<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
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<td>GEOG 304</td>
<td>Human Impact on the Environment</td>
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<td>Conservation of Natural Resources</td>
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<td>Population, Environment, Development</td>
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<td>Environmental Problems</td>
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<td>Physical Geography of the City</td>
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<td>GEOG 540</td>
<td>Globalization and the City</td>
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<td>Urban Environmental Change and Social Justice</td>
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<td>NURS 620</td>
<td>Global Food Security and Systems (if not selected above)</td>
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<td>Global Maternal and Child Health: From Evidence to Action (if not selected above)</td>
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<td>Ethical Issues in Health Care</td>
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<td>Health, Wealth, and Democracy</td>
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<td>Climate Change, the Environment and Human Health (if not selected above)</td>
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<td>Introduction to Health Disparities (if not selected above)</td>
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<td>Topics in Public Health for Undergrads: (subtitle)</td>
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<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
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**Global Management Track**

To earn the Bachelor of Arts in Global Studies through the Global Management track, students must fulfill the following requirements:

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<tr>
<th>Code</th>
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<th>Credits</th>
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<td>Introduction to Financial Accounting</td>
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<td>BUS ADM 210</td>
<td>Introduction to Management Statistics</td>
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<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
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<td>BUS ADM 330</td>
<td>Organizations</td>
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<td>Principles of Finance</td>
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<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
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<td>BUS ADM 465</td>
<td>International Marketing</td>
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<td>BUS ADM 496</td>
<td>International Business (capstone)</td>
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<td>ECON 103</td>
<td>Principles of Microeconomics</td>
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<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
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<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
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<td>ENGLISH 205</td>
<td>Business Writing</td>
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<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
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<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
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<td>or GLOBAL 311</td>
<td>Contexts for Global Management</td>
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<td></td>
<td>COMMUN 350 Intercultural Communication</td>
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<td>COMMUN 450 Cross-Cultural Communication</td>
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<td></td>
<td>COMMUN 550 International and Global Communication</td>
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**Global Management Track Electives**

Select 6 credits (see below) 6

Total Credits 57

**Global Management Electives**

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<tr>
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<td>BUS ADM 495</td>
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<td>BUS ADM 535</td>
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<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication (if not selected above)</td>
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</table>
Global Security Track

To earn the Bachelor of Arts in Global Studies through the Global Security track, students must complete the requirements listed below. Students in this track must complete at least 36 credits in L&S upper-division (numbered 300 or above) courses.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
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<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
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<td>GLOBAL 371</td>
<td>Rethinking Global Security</td>
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<td>GLOBAL 571</td>
<td>Global Security Capstone: Future Trends</td>
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Select one of the following: 3

- GLOBAL/ANTHRO 442 Humanitarianism in Global Perspective
- GLOBAL 447 The Global Politics of Human Rights
- GLOBAL 471 Strategies for Realizing Security in Global Contexts
- ECON 210 or MTHSTAT 215 Economic Statistics

Select one of the following: 3-4

- ANTHRO 540 Applications of Anthropology
- ANTHRO 560 Introduction to Research Methods in Anthropology
- ANTHRO 561 Techniques and Problems in Ethnography
- GEOG 215 Introduction to Geographic Information Science
- GEOG 525 Geographic Information Science

Global Security Electives

Students must complete 21 credits from the following lists, with at least 15 credits selected from List A. There is no minimum number of credits that must be taken from List B.

### List A Electives

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<td>Globalization, Culture, and Environment</td>
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<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
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<td>ANTHRO/GLOBAL 447</td>
<td>The Global Politics of Human Rights</td>
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<td>ANTHRO 448</td>
<td>Cultural and Human Ecology</td>
<td>3</td>
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<td>ANTHRO 449</td>
<td>The Human Economy</td>
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<td>ANTHRO 450</td>
<td>Political Anthropology</td>
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<tr>
<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
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<td>Issues in Contemporary Art</td>
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<td>Introduction to Nutrition</td>
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<td>BMS 539</td>
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<td>Public Health Microbiology Lab</td>
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<td>Introduction to Conservation and Environmental Science</td>
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<td>COMMUN 350</td>
<td>Intercultural Communication</td>
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<td>COMMUN 363</td>
<td>Communication in Human Conflict</td>
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<td>COMMUN 365</td>
<td>Negotiation Skills Workshop (if not selected above)</td>
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<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
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<td>COMMUN 550</td>
<td>International and Global Communication</td>
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<td>COMMUN 631</td>
<td>Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)</td>
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<td>COMMUN 665</td>
<td>Introduction to Mediation (if not selected above)</td>
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<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
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<td>Seminar in Communication in a World of AIDS</td>
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<td>COMPLIT 232</td>
<td>Literature and Politics: (with appropriate subtitle)</td>
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<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (with appropriate subtitle)</td>
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<td>COMPLIT 365</td>
<td>Literatures and Cultures of the Americas:</td>
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<td>Introduction to Conservation and Environmental Science</td>
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<td>CRM JST 291</td>
<td>Current Issues in Criminal Justice: (with appropriate subtitle)</td>
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<td>Advanced Topics in Comparative Ethnic Studies: (with appropriate subtitle)</td>
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<td>Muslim Geographies: Identities and Politics</td>
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<td>Nationalities and Nations of the World</td>
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<td>Population, Environment, Development</td>
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<td>Cities of the World: Comparative Urban Geography</td>
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<td>GEOG 464</td>
<td>Environmental Problems</td>
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<td>Globalization and the City</td>
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<td>Urban Environmental Change and Social Justice</td>
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<td>Ad Hoc: (with appropriate subtitle)</td>
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<td>Humanitarianism in Global Perspective (if not selected above)</td>
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<td>Medicine and Pharmaceuticals in the Global Age</td>
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<td>GLOBAL/ANTHRO 447</td>
<td>The Global Politics of Human Rights (if not selected above)</td>
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<td>Introduction to Global Health</td>
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<td>NURS 365</td>
<td>Current Topics of Nursing: (with appropriate subtitle)</td>
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<td>Introduction to Conflict Resolution and Peace</td>
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<td>Introduction to Public Health</td>
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<td>PH 375</td>
<td>Topics in Public Health for Undergrads: (with appropriate subtitle)</td>
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<td>International Law</td>
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<td>The Politics of International Economic Relations</td>
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<td>International Organization and the United Nations</td>
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<td>Seminar in International Relations: (with appropriate subtitle)</td>
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<td>POL SCI 365</td>
<td>Theories and Methods in International Politics</td>
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<td>International Conflict</td>
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<td>Nationalism and Ethnic Conflict</td>
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<td>Advanced Topics in Religious Studies: (with appropriate subtitle)</td>
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<td>Social Change in the Global Economy</td>
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<td>The Social Organization of Technology: A Comparative Perspective</td>
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<td>Environmental Sociology</td>
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<td>WGS 500</td>
<td>Advanced Social Science Seminar in Women's and Gender Studies: (with appropriate subtitle)</td>
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**List B Electives**

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<td>AFRICOL 311</td>
<td>African Religious Thought and Social Organizations</td>
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<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
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<td>Economic Growth and Sustainable Development in Africa</td>
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<td>AFRICOL 450</td>
<td>Cultural Transmissions: Black Africa and Black America</td>
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<td>Selected Texts/Topics in Africology: (with appropriate subtitle)</td>
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<td>Women's Roles in Cross-Cultural Perspective</td>
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<td>Peoples and Cultures of Africa</td>
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<td>ANTHRO 322</td>
<td>Europe in Anthropological Perspective</td>
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<td>Japanese Culture and Society</td>
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<td>Peoples and Cultures of South Asia</td>
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<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
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<td>Organizations</td>
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<td>Contemporary Chinese Societies through Film</td>
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**Global Sustainability Track**

To earn the Bachelor of Arts in Global Studies through the Global Sustainability track, students must complete 51-56 credits in the requirements listed below. Students in this track must complete at least 36 credits in upper-division (numbered 300 or above) courses, of which 24 credits must be in L&S.

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<td>The Politics and Policy of Sustainability</td>
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<td>GLOBAL 561</td>
<td>Preparing for Sustainable Peacebuilding and Social Change</td>
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**Global Sustainability Track Electives**

Select 15 credits (see below) 15

Total Credits 51-56

**Global Sustainability Electives**

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<td>Planning Local Economic Development</td>
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### Global Urban Development Track

#### Global Urban Development Track Core

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<td>or GEOG 540</td>
<td>Globalization and the City</td>
<td></td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
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Select one of the following:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 214</td>
<td>Wisconsin</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
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<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
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</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 300</td>
<td>Architectural History and Theory</td>
<td></td>
</tr>
<tr>
<td>ARCH 301</td>
<td>Architecture Systems 1</td>
<td></td>
</tr>
<tr>
<td>ARCH 302</td>
<td>Architecture and Human Behavior</td>
<td></td>
</tr>
<tr>
<td>ARCH 303</td>
<td>Architecture Systems 2</td>
<td></td>
</tr>
<tr>
<td>ARCH 340</td>
<td>Urban Design</td>
<td></td>
</tr>
<tr>
<td>ARCH 533</td>
<td>Topics in Architectural Theory: (Urban Design and Practical Theory* and Politics of Urban Disaster* subtitles) (if not chosen above)</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 534</td>
<td>Field Study</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 585</td>
<td>Research Methods in Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

### Global Urban Development Track Electives

Select 24 credits (below)

Total Credits: 45-46

#### Global Urban Development Electives List A

Students must select 12 credits from this list:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 100</td>
<td>Architectural Making I (A)</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 101</td>
<td>Introduction to Architectural Theory (A)</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 300</td>
<td>Architectural History and Theory</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 301</td>
<td>Architecture Systems 1</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 302</td>
<td>Architecture and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 303</td>
<td>Architecture Systems 2</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 310</td>
<td>Fundamentals of Architectural Design I</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 320</td>
<td>Fundamentals of Architectural Design II</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 340</td>
<td>Urban Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 390</td>
<td>Special Topics: (&quot;Real Estate Development&quot; subtitle)</td>
<td>1-3</td>
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<tr>
<td>ARCH 391</td>
<td>Independent Studies</td>
<td>3</td>
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<tr>
<td>ARCH 410</td>
<td>Architectural Design I</td>
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</tr>
<tr>
<td>ARCH 420</td>
<td>Architectural Design II</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 533</td>
<td>Topics in Architectural Theory: (Urban Design and Practical Theory* and Politics of Urban Disaster* subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 534</td>
<td>Field Study</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 560</td>
<td>Introduction to Historic Preservation</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 585</td>
<td>Research Methods in Architecture</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
<td>4</td>
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<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>4</td>
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<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 625</td>
<td>Intermediate Geographic Information Science</td>
<td>4</td>
</tr>
<tr>
<td>URBPLAN 140</td>
<td>Issues in Contemporary Urban Planning (SS)</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 141</td>
<td>Urban Planning Solutions to Contemporary Urban Problems (SS)</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 315</td>
<td>Great Cities of the World: Their Growth and Guided Urbanization</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 591</td>
<td>Introduction to Urban Geographic Information Systems (GIS) in Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 651</td>
<td>Land Use Planning Practice</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 655</td>
<td>Negotiation Theory and Practice for Urban Planners</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 662</td>
<td>Land Use Planning for Urban Redevelopment</td>
<td>3</td>
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<tr>
<td>URBPLAN 684</td>
<td>Planning Local Economic Development</td>
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Students must select 12 credits from this list:

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<th>Credits</th>
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**List B**

Students must select 12 credits from this list:

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<tr>
<td>AFRICOL 300</td>
<td>Urban Violence</td>
<td>3</td>
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<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 431</td>
<td>Cities and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 360</td>
<td>Modern Architecture II: The Rise of Modern Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 361</td>
<td>Modern Architecture III: Contemporary Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 458</td>
<td>A Comparative History of Architecture and Urbanism: (with approved subtitle)</td>
<td>3</td>
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<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics</td>
<td>4</td>
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<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science (NS)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions: (with approved subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH 240</td>
<td>Rhetoric, Writing, and Culture: (with approved subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH 268</td>
<td>Introduction to Cultural Studies: (with approved subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 624</td>
<td>Seminar in Modern Literature: (with approved subtitle)</td>
<td>3</td>
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<tr>
<td>GEOG 140</td>
<td>Our Urban Environment: Introduction to Urban Geography (SS)</td>
<td>3</td>
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<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
<td>3</td>
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<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 332</td>
<td>China: Peoples, Regions, and Development</td>
<td>3</td>
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<tr>
<td>GEOG 405</td>
<td>Cartography</td>
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<td>GEOG 421</td>
<td>Geography of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
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<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
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<tr>
<td>GEOG 462</td>
<td>Cultural Geography of Latin America</td>
<td>3</td>
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<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td>3</td>
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<td>GEOG 520</td>
<td>Physical Geography of the City</td>
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<td>GEOG 540</td>
<td>Globalization and the City</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 321</td>
<td>The Global City in History</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 361</td>
<td>Environment and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 421</td>
<td>Cities in the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 461</td>
<td>The Politics and Policy of Sustainability</td>
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<tr>
<td>HCA 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 463</td>
<td>History of the American City</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis (NS)</td>
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</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>NURS 110</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 213</td>
<td>Urban Government and Politics (SS)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 450</td>
<td>Urban Political Problems</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 452</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health</td>
<td>3</td>
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<tr>
<td>PH 375</td>
<td>Topics in Public Health for Undergrads</td>
<td>3</td>
</tr>
<tr>
<td>RELIGST 250</td>
<td>Selected Topics in Religious Studies: (&quot;Global Perspectives on Religion and Science&quot; subtitle)</td>
<td>3</td>
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<td>SOCIO 193</td>
<td>First-Year Seminar: (&quot;College in the City&quot; subtitle)</td>
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</tr>
<tr>
<td>SOCIO 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
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<tr>
<td>SOCIO 377</td>
<td>Urbanism and Urbanization</td>
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<tr>
<td>SOCIO 495</td>
<td>Seminar in Sociology: (&quot;Urban International Sociology&quot; (and other approved subtitles))</td>
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<tr>
<td>SOCIO 495</td>
<td>Seminar in Sociology: (Theory of Development (Tentative title))</td>
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<tr>
<td>URBPLAN 316</td>
<td>Planning for the Great Cities of America</td>
<td>3</td>
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<tr>
<td>URBPLAN 350</td>
<td>Social Justice, Urban Planning and the New Multicultural America</td>
<td>3</td>
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<tr>
<td>URB STD 193</td>
<td>First-Year Seminar: (with approved subtitle)</td>
<td>3</td>
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<tr>
<td>URB STD 250</td>
<td>Exploring the Urban Environment (SS)</td>
<td>3</td>
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<tr>
<td>URB STD 360</td>
<td>Perspectives on the Urban Scene: (with approved subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 450</td>
<td>Urban Growth and Development: A Global View</td>
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</tbody>
</table>

**Exit Survey**

All Global Studies degree and minor students are required to complete an assessment assignment and an exit survey upon completion of their required coursework. This assessment process allows Global Studies students to reflect on their experience while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall, spring, and summer terms. Students who are about to complete or who have finished all coursework and need to take the exit survey should contact Tracy Buss (tbusss@uwm.edu).

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including
high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the Global Studies Degree**

Honors in the Global Studies Degree is different from all-university honors and signifies that a student has attained a significant level of achievement in their specific academic program. While the exact number of students who receive Honors in the Global Studies Degree will vary from year to year, on average recipients can be considered to rank among the top 10% of Global Studies graduates. Eligibility requirements for Honors in the Global Studies Degree are:

- GPA of 3.000 or higher for all graded UWM credits attempted;
- GPA of 3.500 or higher for all courses required in the Global Studies degree;
- GPA of 3.750 or higher for all upper-level courses required in the Global Studies degree (minimum of 15 credits);
- GPA of 3.750 or higher for all Global courses (minimum of 18 credits).

Non-UWM/transfer credits are excluded from GPA calculations for Honors in the Global Studies Degree.

**Honors in the College of Letters and Science**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., .3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact Christine Wolf, cawolf@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/cie/academics/global-studies/

**Global Studies, Minor**

UWM’s Global Studies programs combines the benefits of a liberal arts education with the training of a professional program to prepare students to work internationally or domestically on matters that cross borders and cultures. The College of Letters and Science and several of UWM’s professional schools have formed a partnership to offer students this unique program of study that will prepare them for positions of global leadership in our increasingly interconnected world.

At UWM, the Global Studies minor are rigorous programs that incorporates classes across disciplines, a required study abroad experience, and extensive foreign language requirements. This challenging but rewarding program prepares students to excel in a job market that demands knowledge across subject areas and a culturally sensitive and savvy approach. The analytical, communication, and cultural awareness knowledge and skills acquired through the Global Studies program will serve students well in any area of work. Global Studies minors do not choose a track, but rather choose classes from an array of options that include classes from each of the different tracks. An overseas experience is required for minors.

**Requirements**

A minimum of 9 credits for the minor must be taken at the 300 level or above. These credits can include foreign language or additional study abroad coursework. At least 9 credits must be completed in residence at UWM. Credits earned in a UWM study abroad or exchange program count toward this requirement. No more than 9 credits from another major, minor, or certificate program may be counted toward the Global Studies minor. The College of Letters & Science requires that students achieve at least a 2.500 cumulative GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including transfer work. The program also requires students to complete an exit survey prior to graduation. See the Global Studies information in the Inter-School/College section of the catalog for details on completion of the exit survey.
The Global Studies Minor consists of at least 18 credits, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GLOBAL 101</td>
<td>Introduction to Global Studies I: People and Politics (SS)</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 201</td>
<td>Introduction to Global Studies II: Economics and the Environment (SS)</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 202</td>
<td>Introduction to Global Studies III: Globalization and Technology (SS)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Foreign Language**
Select at least four university-level semesters of a single foreign language.

**Study Abroad**
Select one of the following with approval from a Global Studies advisor:
- Overseas academic experience
- Internship outside of the U.S.

**Global Content Electives**
Select 6 credits (see below)

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<tr>
<td>AFRICOL 232</td>
<td>Survey of African Societies and Cultures</td>
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</tr>
<tr>
<td>AFRICOL 311</td>
<td>African Religious Thought and Social Organizations</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 565</td>
<td>Selected Texts/Topics in Africology: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>AIS/ANTHRO/GLOBAL 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 250</td>
<td>Women's Roles in Cross-Cultural Perspective</td>
<td>3</td>
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<tr>
<td>Anthro 3XX</td>
<td>&quot;Peoples and Cultures&quot; series</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/AIS/GLOBAL 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
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<tr>
<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
<td>3</td>
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<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
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<th>Credits</th>
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<td>Cross-Cultural Communication</td>
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<tr>
<td>COMMUN 550</td>
<td>International and Global Communication</td>
<td>3</td>
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<tr>
<td>COMMUN 631</td>
<td>Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 655</td>
<td>Cultural Training and Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (with appropriate subtitle)</td>
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<tr>
<td>CRM JST 291</td>
<td>Current Issues in Criminal Justice: (&quot;International Terrorism&quot; subtitle)</td>
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<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td>3</td>
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<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
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<tr>
<td>ECON 454</td>
<td>International Trade</td>
<td>3</td>
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<tr>
<td>ECON 455</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (subtitle)</td>
<td>3</td>
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<tr>
<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>FILMSTD/JEWISH 350</td>
<td>Global Jewish Film and Television: (subtitle)</td>
<td>3</td>
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<tr>
<td>FILMSTD 412</td>
<td>Global Cinemas - Cinematic Practices in the Context of Globalization: (subtitle)</td>
<td>3</td>
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<tr>
<td>FRENCH 426</td>
<td>Growing Up French</td>
<td>3</td>
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<tr>
<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures: (with appropriate subtitle)</td>
<td>1-3</td>
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<tr>
<td>FRENCH 450</td>
<td>Institutions and Culture of Contemporary France</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 225</td>
<td>The Language of Maps</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 400</td>
<td>Population, Environment, Development</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 462</td>
<td>Cultural Geography of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td>3</td>
</tr>
<tr>
<td>GEG 540</td>
<td>Globalization and the City</td>
<td>3</td>
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<tr>
<td>GERMAN 334</td>
<td>Introduction to German Literature and Culture</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 410</td>
<td>German Cultural History</td>
<td>3</td>
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<tr>
<td>GERMAN 415</td>
<td>Topics in German Civilization: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>GLOBAL 311</td>
<td>Contexts for Global Management</td>
<td>3</td>
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<tr>
<td>GLOBAL 321</td>
<td>The Global City in History</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL/AIS/ANTHRO 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
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</table>

1 Retrocredits may be used to fulfill this requirement. (Note that a placement test must be taken and at least one 3-credit, university-level foreign language course must be completed successfully in order to earn retrocredits, according to foreign language departmental requirements.)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GLOBAL 371</td>
<td>Rethinking Global Security</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 421</td>
<td>Cities in the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL/ANTHRO 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
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<tr>
<td>GLOBAL 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
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<tr>
<td>GLOBAL 448</td>
<td>Intellectual Property in the Global Information Economy</td>
<td>3</td>
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<tr>
<td>GLOBAL 451</td>
<td>Access, Security, and Intercultural Contexts in Global Communications</td>
<td>3</td>
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<td>GLOBAL 471</td>
<td>Strategies for Realizing Security in Global Contexts</td>
<td>3</td>
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<tr>
<td>GLOBAL 541</td>
<td>Cross-Cultural Management</td>
<td>3</td>
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<tr>
<td>GLOBAL 551</td>
<td>Global Communications Capstone: Future Trends</td>
<td>3</td>
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<tr>
<td>GLOBAL 571</td>
<td>Global Security Capstone: Future Trends</td>
<td>3</td>
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<tr>
<td>GLOBAL 699</td>
<td>Advanced Independent Study 1</td>
<td>1-3</td>
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<tr>
<td>HEBR ST 254</td>
<td>Studies in Hebrew Culture: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
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<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
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<tr>
<td>HIST 372</td>
<td>Topics in Global History: (with appropriate subtitle)</td>
<td>3</td>
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<td>HIST 378</td>
<td>Revolution in China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 392</td>
<td>The History of Southern Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 393</td>
<td>History of Mexico</td>
<td>3</td>
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<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
<td>3</td>
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<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
<td>3</td>
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<tr>
<td>ITALIAN 229</td>
<td>Italian Cinema</td>
<td>3</td>
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<tr>
<td>ITALIAN 245</td>
<td>Italian Fictions: (subtitle)</td>
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<td>ITALIAN 258</td>
<td>Contemporary Italian Society and Culture</td>
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<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
<td>3</td>
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<td>ITALIAN 357</td>
<td>Topics in Italian Culture in Translation: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>ITALIAN 457</td>
<td>Topics in Italian Literature and Culture in Translation: (with appropriate subtitle)</td>
<td>3</td>
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<td>ITALIAN 629</td>
<td>Major Film Directors: (with appropriate subtitle)</td>
<td>3</td>
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<td>JAMS 562</td>
<td>Media Studies and Culture</td>
<td>3</td>
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<tr>
<td>JAMS 620</td>
<td>Seminar in Global Media</td>
<td>3</td>
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<tr>
<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
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<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
<td>3</td>
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<td>POLISH 236</td>
<td>Polish Culture in its Historical Setting</td>
<td>3</td>
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<tr>
<td>POL SCI 300</td>
<td>Western European Politics</td>
<td>3</td>
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<tr>
<td>POL SCI 302</td>
<td>Politics of Eastern Europe</td>
<td>3</td>
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<tr>
<td>POL SCI 310</td>
<td>Russian and Post-Soviet Politics</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 316</td>
<td>International Law</td>
<td>3</td>
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<tr>
<td>POL SCI 325</td>
<td>Latin American Politics</td>
<td>3</td>
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<tr>
<td>POL SCI 330</td>
<td>The Politics of International Economic Relations</td>
<td>3</td>
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<tr>
<td>POL SCI 337</td>
<td>International Organization and the United Nations (or UN Summer Seminar)</td>
<td>3</td>
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<tr>
<td>POL SCI 339</td>
<td>European Integration</td>
<td>3</td>
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<tr>
<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
<td>3</td>
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<tr>
<td>POL SCI 343</td>
<td>Asian International Relations</td>
<td>3</td>
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<tr>
<td>POL SCI 346</td>
<td>U.S.-Latin American Relations</td>
<td>3</td>
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<tr>
<td>POL SCI 359</td>
<td>Problems of American Foreign Policy</td>
<td>3</td>
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<tr>
<td>POL SCI 365</td>
<td>Theories and Methods in International Politics</td>
<td>3</td>
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<tr>
<td>POL SCI 370</td>
<td>International Conflict</td>
<td>3</td>
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<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
<td>3</td>
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<tr>
<td>POL SCI 423</td>
<td>Conduct of American Foreign Affairs</td>
<td>3</td>
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<tr>
<td>PORTUGS 225</td>
<td>Understanding Brazil: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>PORTUGS 360</td>
<td>Luso-Brazilian Culture:</td>
<td>3</td>
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<td>RUSSIAN 245</td>
<td>Russian Life and Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 235</td>
<td>Social Change in the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 290</td>
<td>International Migration: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>SOCIOL 452</td>
<td>Social Networks in Global Commerce: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>SPANISH 225</td>
<td>Understanding the Hispanic World:</td>
<td>3</td>
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<td>SPANISH 491</td>
<td>Topics in Hispanic Culture: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>WGS 401</td>
<td>Global Feminisms</td>
<td>3</td>
</tr>
</tbody>
</table>

1 With approval of Global Studies advisor.

**Contact Information**

Current Students contact Christine Wolf, cawolf@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/cie/academics/global-studies/
HISTORY

The study of history involves all aspects of human experience throughout time. The Department of History offers a variety of courses, defined geographically, chronologically, and thematically, through which students acquire both broad and specialized knowledge of the past.

History courses are intended to transmit knowledge about various areas and periods, to address general historical problems, and to make students more capable of reading and analyzing both primary sources and secondary literature. Students learn how to collect information independently, to present material, and to construct arguments in a literate and cogent manner. Courses also are intended to make students more understanding of the complexity of human existence and the reality of human diversity, as well as more prepared to make informed and responsible decisions about issues in the world in which they live. These provide excellent training for professional careers in education, government, business, law, and social work, as well as advanced work in academics.

Programs

- History, BA (p. 1468)
- History, MA (p. 1474)
- History, MA/Library and Information Science, MLIS (p. 1476)
- History, MA: Public History (p. 1477)
- History, Minor (p. 1480)
- History, PhD (p. 1483)

History Courses

HIST 101 Western Civilization: Ancient World to 1500
3 cr. Undergraduate.
A survey of major themes in the social, political, and cultural development of the western world from its ancient origins to 1500.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018, Spring 2015, Fall 2013, UWinteriM 2011.
Current Offerings: http://uwm.edu/schedule

HIST 102 Western Civilization: 1500 to the Present
3 cr. Undergraduate.
A survey of major themes in the social, political, and cultural development of the western world from 1500 to the present.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HIST 110 Football and American Society
3 cr. Undergraduate.
Football as a game and institution in American society and culture. Topics include gender, militarism, patriotism, labor, tax, and race issues in the US.
Prerequisites: none
Course Rules: Counts as a repeat of Hist 404 with a similar topic.
Current Offerings: http://uwm.edu/schedule

HIST 131 World History to 1500
3 cr. Undergraduate.
Global perspective on the development of the civilizations of Europe, Africa, Asia, and the Americas from prehistoric times to the dawn of the modern era.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HIST 132 World History Since 1500
3 cr. Undergraduate.
Global perspective on the development and integration of the civilizations of the world from the age of European expansion to the present.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Spring 2017, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

HIST 141 The Family and Sex Roles in the Past
3 cr. Undergraduate.
Change in the structure and function of families and gender roles. Topics include demography, kinship and inheritance, child-rearing, birth control, feminism, and homosexuality.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req’d service learning component.
General Education Requirements: HU, CD
Current Offerings: http://uwm.edu/schedule

HIST 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities through materials from literature, history, and the media, with attention to African-, Asian-, Hispanic-, and Native-American experiences.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 151 American History: 1607 to 1877
3 cr. Undergraduate.
Survey of American social, political and economic development to 1877.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

HIST 152 American History: 1877 to the Present
3 cr. Undergraduate.
Survey of American social, political, diplomatic, and economic development, from 1877 to the present.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule
HIST 175 East Asian Civilization to 1600
3 cr. Undergraduate.
Survey of the culture, history, and institutions of China, Korea, and Japan from earliest times.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2016, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

HIST 176 East Asian Civilization Since 1600
3 cr. Undergraduate.
Survey of the culture, history, and institutions of China, Korea, and Japan since 1600.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 180 Latin American Society and Culture
3 cr. Undergraduate.
Lecture course designed to familiarize students with the broad parameters of Latin American history, emphasis on themes of continuity and change.
Prerequisites: none.
Course Rules: No cr for students with cr in Hist 388, 389, or 390.
General Education Requirements: SS
Last Taught: Fall 2014, Spring 2014, Spring 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

HIST 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 193 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2007, Fall 2006, Fall 2001, Fall 2000.
Current Offerings: http://uwm.edu/schedule

HIST 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

HIST 200 Historical Roots of Contemporary Issues:
3 cr. Undergraduate.
This course examines the historical dimensions and demonstrates the importance of historical thinking for the understanding of contemporary problems and crises.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: SS
Last Taught: Fall 2017, Summer 2013, Summer 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

HIST 201 The Ancient World: The Near East and Greece
3 cr. Undergraduate.
Mesopotamians, biblical Palestinians, Assyrians, Medes, Persians, and Greeks to 323 B.C.E.
Prerequisites: none.
Course Rules: Not open for cr to students who have had any Hist courses numbered 121, 303, or 304.
General Education Requirements: HU
Last Taught: Spring 2017, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

HIST 202 The Ancient World: The Roman Republic and Empire
3 cr. Undergraduate.
Survey of the history of ancient Rome from its beginnings to the time of Constantine the Great.
Prerequisites: none.
Course Rules: Not open for cr to students who have had any Hist courses numbered 122, 307 or 308.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 203 The History of Medieval Europe: The Early Middle Ages
3 cr. Undergraduate.
Studies in the history of Europe and the Mediterranean world from the fourth to the tenth centuries.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HIST 204 The History of Medieval Europe: The High Middle Ages
3 cr. Undergraduate.
Studies in the history of Europe and the Mediterranean world from the eleventh to the fourteenth centuries.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 205 Europe and the Modern World: 1815 to the Present
3 cr. Undergraduate.
Survey of the political, economic, social, and cultural history of modern western civilization.
Prerequisites: none.
Course Rules: Not open for cr to students w/cr in Hist 374 or 375.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule
HIST 210 The Twentieth Century: A Global History
3 cr. Undergraduate.
War, revolution, colonialism in global perspective; role of science, communication, and technology; shifting concepts of gender, class, race, and authority; internationalization of ideas and commerce.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

HIST 215 History of Capitalism
3 cr. Undergraduate.
Examines the role of property rights, technology, forms of enterprise, and business-state relations and the economic benefits and social costs of economic change.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

HIST 229 History of Race, Science, and Medicine in the United States
3 cr. Undergraduate.
Education and professionalization of minorities in science, medicine, and nursing; minorities as patients and scientific subjects; biographies of minority scientists; scientific theories of racial inferiority.
Prerequisites: none.
General Education Requirements: CD, HU
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

HIST 235 English History to 1688
3 cr. Undergraduate.
Celtic period, Roman occupation, the Anglo-Saxons, Christianization of England, Norman conquest, feudalism, medieval peasantry, Black Death, rise of the Tudors, Renaissance, Reformation, English revolution.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 236 Britain Since 1688: Rise and Decline of a Great Power
3 cr. Undergraduate.
Examines change and continuities in British life from 1688 to the present against the backdrop of industrialization, imperial expansion, industrial decline, and decolonization.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 239 Poland and its Neighbors, 1795-1914
3 cr. Undergraduate.
The Polish lands and Central Europe in the 19th century, from the Napoleonic era to the First World War.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

HIST 241 Women and Gender in Europe: 1350 to 1750
3 cr. Undergraduate.
Social, economic, cultural, religious, and political aspects of the history of women from the Middle Ages to the Enlightenment.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 242 Women and Gender in Europe: 1750 to the Present
3 cr. Undergraduate.
Social, economic, cultural, religious and political aspects of the history of women and gender from the Enlightenment to the present.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 243 History of Women in American Society
3 cr. Undergraduate.
The changing, economic, social, and political roles of American women, their relationship to public and private life, and their evolving self-consciousness.
Prerequisites: none.
Course Rules: Not open to students who have taken Hist 423.
General Education Requirements: HU
Last Taught: Fall 2016, Spring 2016, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

HIST 248 The First World War
3 cr. Undergraduate.
Origins and course of what became the Great War. The peace settlements. Emphasis on economic and social change as well as military and diplomatic matters.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HIST 249 The Second World War in Europe
3 cr. Undergraduate.
The origins and course of the war in Europe from 1939 to 1945. Emphasis on political and diplomatic aspects as well as military matters.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 262 North American Indian History to 1887
3 cr. Undergraduate.
A survey of Native American history from aboriginal times to 1887. Emphasis will be placed on American policies and change within Indian societies.
Prerequisites: none.
Course Rules: AIS 262 & Hist 262 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
HIST 263 North American Indian History Since 1887
3 cr. Undergraduate.
A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century.
Prerequisites: none.
Course Rules: none.

HIST 267 The History of Latinos in the United States
3 cr. Undergraduate.
History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences.
Prerequisites: none.
Course Rules: none.

HIST 268 History of the American West
3 cr. Undergraduate.
The American frontier experience; Indian policy, expansion; fur trade; settlement; communications, mining frontier; cattle frontier, and the impact of westward expansion on the nation.
Prerequisites: none.

HIST 269 Asian Americans in Historical Perspective
3 cr. Undergraduate.
The history of Asians in the United States from 1849 to the present emphasizing the Chinese, Japanese, Filipino, Korean, and southeast Asian experiences of immigration, discrimination, and assimilation in different regions in the United States.
Prerequisites: none.

HIST 270 Topics in American History
3 cr. Undergraduate.
American historical topics of current importance.
Prerequisites: none.
Course Rules: May be taken w/chg in topic. Students may take any combination of Hist 250, 270 & 290 not to exceed 9 cr.

HIST 271 The 1960s in the United States: A Cultural History
3 cr. Undergraduate.
Overview of social upheavals; how 1960s shaped racial and ethnic identities, youth culture, sexual mores, community activism, art and fashion, political values; decade’s enduring influence.
Prerequisites: none.

HIST 274 Ancient Egyptian Civilization
3 cr. Undergraduate.
Culture of Egypt, with particular attention to its literature reflecting social, political, and religious conditions; emphasis on Egyptian-Hebrew contacts during the second millennium.
Prerequisites: none.
Course Rules: none.

HIST 276 History of Buddhism Across Asia
3 cr. Undergraduate.
The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.
Prerequisites: none.

HIST 280 Islamic Civilization: The Formative Period, ca. 500-1258
3 cr. Undergraduate.
The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.
Prerequisites: none.

HIST 282 The Modern Middle East in the Nineteenth and Twentieth Centuries
3 cr. Undergraduate.
The challenge of colonialisms--Ottoman, Portuguese, French and British--and the response of nationalisms--Arab, Turkish, Persian, and Zionist; also the Arab-Israeli conflict.
Prerequisites: none.

HIST 284 Buddhism Across Asia
3 cr. Undergraduate.
History of Buddhism from the 5th century BCE to the present.
Prerequisites: none.

HIST 286 The Korean War
3 cr. Undergraduate.
Prerequisites: none.

HIST 287 The Vietnam War
3 cr. Undergraduate.
A political, social, and cultural history of the Vietnamese and American dimensions of the war in Vietnam.
Prerequisites: none.

HIST 288 The Vietnam War
3 cr. Undergraduate.
A political, social, and cultural history of the Vietnamese and American dimensions of the war in Vietnam.
Prerequisites: none.

HIST 289 The Modern Middle East in the Nineteenth and Twentieth Centuries
3 cr. Undergraduate.
The challenge of colonialisms--Ottoman, Portuguese, French and British--and the response of nationalisms--Arab, Turkish, Persian, and Zionist; also the Arab-Israeli conflict.
Prerequisites: none.

HIST 290 Islamic Civilization: The Formative Period, ca. 500-1258
3 cr. Undergraduate.
The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.
Prerequisites: none.

HIST 292 The Modern Middle East in the Nineteenth and Twentieth Centuries
3 cr. Undergraduate.
The challenge of colonialisms--Ottoman, Portuguese, French and British--and the response of nationalisms--Arab, Turkish, Persian, and Zionist; also the Arab-Israeli conflict.
Prerequisites: none.

HIST 294 Buddhism Across Asia
3 cr. Undergraduate.
The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.
Prerequisites: none.

HIST 296 The Korean War
3 cr. Undergraduate.
Prerequisites: none.

HIST 298 The Vietnam War
3 cr. Undergraduate.
A political, social, and cultural history of the Vietnamese and American dimensions of the war in Vietnam.
Prerequisites: none.

HIST 299 The Modern Middle East in the Nineteenth and Twentieth Centuries
3 cr. Undergraduate.
The challenge of colonialisms--Ottoman, Portuguese, French and British--and the response of nationalisms--Arab, Turkish, Persian, and Zionist; also the Arab-Israeli conflict.
Prerequisites: none.

HIST 300 Islamic Civilization: The Formative Period, ca. 500-1258
3 cr. Undergraduate.
The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.
Prerequisites: none.
HIST 289 Internship in History, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of history in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Hist; 2.50 gpa; writ cons supervising faculty member & dept chair.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

HIST 290 Topics in Global History.
3 cr. Undergraduate.
Global, comparative, and non-western historical topics of current importance.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic. Students may take any combination of Hist 250, 270, & 290 not to exceed 9 cr.
Last Taught: Spring 2013.
Current Offerings: http://uwm.edu/schedule

HIST 293 Seminar on Historical Method: Theory and Approach
3 cr. Undergraduate.
Systematic exploration of the varieties of historical thought and of common problems in writing history, including causation, generalization, objectivity, purpose and value of history.
Prerequisites: none.
Course Rules: Not open for cr to students w/cr in, and does not count as repeat of, Hist 291.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

HIST 294 Seminar on Historical Method: Research Techniques
3 cr. Undergraduate.
The practical problems of historical research: question-framing, research design, use of sources, bibliography, archives and manuscript collections, quantification; evidence, verification, and exposition.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 295 Historical Encounters:
3 cr. Undergraduate.
Studies in history of contacts and conflicts between differing civilizations. European, Near Eastern, Asian, African, and American topics are treated in cross-cultural perspective.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

HIST 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & sr s.
Current Offerings: http://uwm.edu/schedule

HIST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: UWинтериM 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HIST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

HIST 303 A History of Greek Civilization: The Greek City-State
3 cr. Undergraduate/Graduate.
Greek history from prehistoric times to the death of Alexander the Great.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Spring 2018, Fall 2015, Spring 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule

HIST 304 A History of Greek Civilization: The Age of Alexander the Great
3 cr. Undergraduate/Graduate.
The Macedonian state to the death of Alexander the Great; the Hellenistic states.
Prerequisites: jr st; completion of GER English Composition competency req.
Last Taught: Spring 2015, Fall 2011, Fall 2007, Spring 2005.
Current Offerings: http://uwm.edu/schedule

HIST 307 A History of Rome: The Republic
3 cr. Undergraduate/Graduate.
Roman history from the beginnings of the Roman state to the death of Julius Caesar.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

HIST 308 A History of Rome: The Empire
3 cr. Undergraduate/Graduate.
Roman history from the death of Julius Caesar to the fall of the empire in the west.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: http://uwm.edu/schedule
HIST 318 Medieval Civilization: The High Middle Ages
3 cr. Undergraduate/Graduate.
The intellectual development of medieval Europe, from the twelfth century to the fourteenth century.
Prerequisites: jr st; completion of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 319 The Era of the Crusades
3 cr. Undergraduate/Graduate.
A consideration of the relationships between western Europe and the East in the period of the Crusades.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2017, Fall 2016, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

HIST 320 History of Medieval Warfare
3 cr. Undergraduate/Graduate.
Evolution of warfare in the Middle Ages; technology, tactics, strategy, and interaction with politics and culture.
Prerequisites: jr st; completion of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 325 The Renaissance
3 cr. Undergraduate/Graduate.
Culture and society in Europe from the fourteenth to the sixteenth century; early Italian Renaissance to Elizabethan England; the Age of Discovery.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 326 The Reformation
3 cr. Undergraduate/Graduate.
Major religious movements and leaders of the sixteenth century; social and intellectual history of the Protestant and Catholic Reformations.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 329 The Roman Catholic Church, 1500 to the Present
3 cr. Undergraduate/Graduate.
History of the Catholic Church from the Renaissance to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 330 The Papacy in History
3 cr. Undergraduate/Graduate.
Examination of the papacy, the world's most visible and influential religious office, from its origins to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Not open to students w/cr in Hist 600 w/same topic.
Last Taught: Fall 2016, Spring 2013.
Current Offerings: http://uwm.edu/schedule

HIST 331 The Papacy in History
3 cr. Undergraduate/Graduate.
The religious office, from its origins to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2016, Fall 2014, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

HIST 334 History of the Jews in Europe from the Middle of the Eighteenth Century to the Present
3 cr. Undergraduate/Graduate.
History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.
Prerequisites: jr st.
Course Rules: Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

HIST 341 Imperial Russia
3 cr. Undergraduate/Graduate.
Development of autocracy and expansion of Russia's multi-ethnic empire; Russian economic, political, and intellectual developments under the tsars; reform and revolution.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 343 Russia Since 1917
3 cr. Undergraduate/Graduate.
Russian cultural, social, and political history since the revolutions of 1917.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 346 Poland and Its Neighbors, 1914-1945
3 cr. Undergraduate/Graduate.
The effects of two world wars in East-Central Europe. The independence and subjugation of Poland, Czechoslovakia, Hungary and the Baltic States.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2016, Fall 2014, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

HIST 348 Poland and Its Neighbors, 1945 to the Present
3 cr. Undergraduate/Graduate.
Developments in Poland, East Germany, Czechoslovakia, and Hungary since the Second World War. The origins, development, decline, and fall of communist rule in Central Europe.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 354 Imperial Europe
3 cr. Undergraduate/Graduate.
History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.
Prerequisites: jr st.
Course Rules: Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

HIST 355 Modern and Contemporary France
3 cr. Undergraduate/Graduate.
France as a political experiment, complex society, intellectual and cultural center, and imperial power since 1815, with emphasis on the period since the late nineteenth century.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 358 The Jews of Modern Europe: History and Culture
3 cr. Undergraduate/Graduate.
History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.
Prerequisites: jr st.
Course Rules: Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule
HIST 363 Germany: Hitler and the Nazi Dictatorship
3 cr. Undergraduate/Graduate.
Rise and fall of Third Reich; Weimar Republic and collapse; Hitler's conquest of power, national socialist state, World War II; catastrophe and reconstruction.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HIST 364 The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45
3 cr. Undergraduate/Graduate.
The rise of Nazism; anti-Semitism; annihilation of Jews and other ethnic and religious minorities; Jewish responses and resistance; legacy of persecution.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: Not open for cr to students with Hist 295 'Historical Encounters: The Holocaust.'
Current Offerings: http://uwm.edu/schedule

HIST 370 Topics in the History of Religious Thought:
3 cr. Undergraduate/Graduate.
Selected topics in the history of religious thought, for graduate and advanced undergraduate students. Intensive reading and student reports will be stressed.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

HIST 371 Topics in European History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in European history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

HIST 372 Topics in Global History:
3 cr. Undergraduate/Graduate.
Selected issues in global history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

HIST 373 Topics in Gender and History:
3 cr. Undergraduate/Graduate.
Selected topics in the history of gender, family, and sexuality.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2013, Fall 2009, Spring 2007, Fall 2006.
Current Offerings: http://uwm.edu/schedule

HIST 375 Contemporary European History, 1945 to the Present
3 cr. Undergraduate/Graduate.
The Cold War; the recovery of Europe; student revolutions and spiritual crisis; economic stagnation; moves toward European unification; breakup of the Soviet bloc.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

HIST 376 History of Ancient China, Earliest Times to 220 A.D.
3 cr. Undergraduate/Graduate.
History of China through First Unification and Great Empire of Han Dynasty; attention to development of distinctive qualities of Chinese philosophy, politics, society, and material culture.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 377 Modern China
3 cr. Undergraduate/Graduate.
China in the nineteenth and twentieth centuries, from the Opium Wars to the establishment of People's Republic in 1949. Major political, economic and social issues.
Prerequisites: jr st; satisfaction of English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 378 Revolution in China
3 cr. Undergraduate/Graduate.
History of the socialist revolution in China. Background examination of the Chinese communist movement, but major emphasis on People's Republic from 1949 to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 379 Introduction to Jewish History
3 cr. Undergraduate.
Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: Hist 379 & Jewish 379 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HIST 380 Buddhism: A Cultural History
3 cr. Undergraduate/Graduate.
Development of Buddhist culture in Asia and contemporary globalized world; intertwining themes of individual purification and Buddhist visions of just and unjust societies.
Prerequisites: jr st; completion GER English Composition competency req.
Last Taught: Fall 2011.
Current Offerings: http://uwm.edu/schedule
HIST 386 Africa: The Age of Empires to 1880
3 cr. Undergraduate/Graduate.
Survey of the highlights of early African history; empires black and white; religion; slavery; material culture.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

HIST 387 Africa: Imperialism and Independence Since 1880
3 cr. Undergraduate/Graduate.
The phases of colonial relationships and the parties involved; conquest, pacification, and independence of African states.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 392 The History of Southern Africa
3 cr. Undergraduate/Graduate.
Surveys the history of South Africa and Zimbabwe with special reference to the twentieth century, comparing their struggles for majority rule.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 393 History of Mexico
3 cr. Undergraduate/Graduate.
An upper-division survey course spanning all periods of Mexican history, with special emphasis on the historical origins and development of major contemporary issues.
Prerequisites: jr st or cons instr; satisfaction of GER English composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 394 History of Japan to 1600
3 cr. Undergraduate/Graduate.
Japanese political, economic, and social development, cultural change, and major historical figures, from ancient times to 1600.
Prerequisites: jr st; completion of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 395 History of Japan Since 1600
3 cr. Undergraduate/Graduate.
Japan’s rise as modern nation-state and economic power; evolution of social, political, cultural institutions from establishment of Tokugawa shogunate through Meiji restoration to present.
Prerequisites: jr st; completion of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 398 Honors Seminar:
3 cr. Undergraduate.
Reading, discussion, and presentation of papers to help students acquire an understanding of important historical problems from a humanities perspective.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to combined 9 cr max in Hist 398 & 399. Counts as repeat of History 270 & 404 w/similar topic.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

HIST 399 Honors Seminar:
3 cr. Undergraduate.
Readings, discussion, and presentation of papers to help students acquire an understanding of important historical problems from a social science perspective.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to combined 9 cr max in Hist 398 & 399.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

HIST 400 Topics in Latin American and Caribbean History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in the history of South America, Central America, and the Caribbean Islands.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2016, Spring 2015, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

HIST 401 Topics in Middle Eastern History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in Middle Eastern history.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

HIST 402 Topics in Asian History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in the history of Asia.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2008.
Current Offerings: http://uwm.edu/schedule

HIST 404 Topics in American History:
3 cr. Undergraduate/Graduate.
Selected themes and issues in the history of the United States.
Prerequisites: jr st; completion of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
HIST 405 The Age of the American Revolution, 1750-1789
3 cr. Undergraduate/Graduate.
Background to revolution; British policy and American protest; political, social, diplomatic, and military phases of the War for Independence; Articles of Confederation; Constitution of 1787.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2017, Spring 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

HIST 409 Causes of the Civil War, 1828-1861
3 cr. Undergraduate/Graduate.
Examination of the relationship between sectional conflict and political and social developments; the explanation of the causes and timing of the Civil War.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

HIST 410 Civil War and Reconstruction: The United States, 1861-1877
3 cr. Undergraduate/Graduate.
The military conflict from Sumter to Appomattox; policies of Lincoln, Reconstruction and aftermath of slavery.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 418 America in Prosperity, Depression and War, 1921-1945
3 cr. Undergraduate/Graduate.
The Twenties as a transition period; the Great Depression; Franklin D. Roosevelt and the New Deal; foreign policies and U.S. participation in World War II.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2015, Fall 2014, Spring 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

HIST 419 America Since 1945
3 cr. Undergraduate/Graduate.
Postwar America, including social and economic developments, Cold War rivalries, and the changing political scenes from the Truman years to the present.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2017, Fall 2016, Spring 2015, UWinterIM 2014.
Current Offerings: http://uwm.edu/schedule

HIST 423 North American Environmental History
3 cr. Undergraduate.
Past interactions between human societies and the natural world on the North American continent.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 432 North American Environmental History
3 cr. Undergraduate.
Past interactions between human societies and the natural world on the North American continent.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 434 The United States as a World Power in the 20th Century
3 cr. Undergraduate/Graduate.
How the United States became involved in two world wars and a cold war, while spreading its interests and influence across the globe.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HIST 435 Ethnic America: To 1880
3 cr. Undergraduate/Graduate.
Survey of the conflict between cultural diversity and the melting pot, included are theories about and experiences of ethnic groups in America, particularly the bad west.
Prerequisites: jr st; satisfaction of GER English composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 436 Immigrant America Since 1880
3 cr. Undergraduate.
Survey of the conflict between the ideas of cultural diversity and assimilation, stressing the differing reception and settlement of white and non-white immigrants.
Prerequisites: jr st; satisfaction of English Composition competency req.
General Education Requirements: CD, HU
Current Offerings: http://uwm.edu/schedule

HIST 440 History of the American Working Classes
3 cr. Undergraduate.
The social and occupational composition of the American working classes and their response to capitalism, socialism, and the organized labor movement.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

HIST 445 African Americans from Slavery to Freedom
3 cr. Undergraduate/Graduate.
African-American history from shores of Africa through Atlantic slave trade to plantation slavery and formation of an African-American community in the New World.
Prerequisites: jr st; satisfaction of English Composition competency req.
General Education Requirements: CD
Last Taught: Summer 2009, Fall 2004, Fall 2003, Fall 1987.
Current Offerings: http://uwm.edu/schedule

HIST 446 African Americans Since the Civil War
3 cr. Undergraduate/Graduate.
The search for justice and equality, from emancipation in 1865 to the civil rights revolution of the 1960's and beyond.
Prerequisites: jr st; satisfaction of English Composition competency req.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule
HIST 448 Baseball in American History
3 cr. Undergraduate/Graduate.
The origins and development of baseball in the United States, its rise as a spectator sport, and its place in American life and culture.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2017, Spring 2016, Fall 2013, Fall 2012. 
Current Offerings: http://uwm.edu/schedule

HIST 449 Popular Culture in America, 1800 to the Present
3 cr. Undergraduate/Graduate.
Popular culture seen through artifacts and the mass media: popular music, newspapers, magazines, dime novels, film, comics, TV, radio, folk heroes, sports, and 'stars.'
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 450 Growth of Metropolitan Milwaukee
3 cr. Undergraduate/Graduate.
History of the city and county of Milwaukee and Milwaukee suburbs, emphasizing population patterns; government; economic change; social, cultural and educational institutions; and spatial relationships.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 451 History of Wisconsin
3 cr. Undergraduate/Graduate.
Political, economic and social development of Wisconsin, especially since 1815, with attention to such major personalities as the La Follettes, Kohlers, Turner, Hoard, Wright, and Gale.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 452 History of Religion in American Life to 1870
3 cr. Undergraduate/Graduate.
Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.
Prerequisites: jr st; satisfaction of English Composition competency req.
Last Taught: Fall 2013, Fall 2012, Fall 2004, Fall 2002. 
Current Offerings: http://uwm.edu/schedule

HIST 453 History of Religion in American Life Since 1870
3 cr. Undergraduate/Graduate.
Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 454 Topics in North American Indian History
3 cr. Undergraduate/Graduate.
Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

HIST 455 American Science, Race, Ethnicity, and Gender: A Biographical Approach
3 cr. Undergraduate.
Impact of race, ethnicity, and gender on American science and scientists. Focus on scientists of color, biography, biographical myths, and role models.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 460 The History of Poverty in America
3 cr. Undergraduate/Graduate.
Social welfare policies and programs (including evolution of social work profession), 1620-present, in light of major developments in American social and intellectual history.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 463 History of the American City
3 cr. Undergraduate/Graduate.
Character of American urbanization and its social and political consequences; responses to 'urban problems' from the early nineteenth century to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Fall 2016, Spring 2014, Fall 2009. 
Current Offerings: http://uwm.edu/schedule

HIST 468 The American Feminist Movement
3 cr. Undergraduate/Graduate.
History of the American feminist movement from colonial times to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 473 History of Wisconsin Indians
3 cr. Undergraduate/Graduate.
History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

HIST 474 Topics in North American Indian History:
3 cr. Undergraduate/Graduate.
Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

HIST 475 American Science, Race, Ethnicity, and Gender: A Biographical Approach
3 cr. Undergraduate.
Impact of race, ethnicity, and gender on American science and scientists. Focus on scientists of color, biography, biographical myths, and role models.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 476 History of Poverty in America
3 cr. Undergraduate/Graduate.
Social welfare policies and programs (including evolution of social work profession), 1620-present, in light of major developments in American social and intellectual history.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 477 History of the American City
3 cr. Undergraduate/Graduate.
Character of American urbanization and its social and political consequences; responses to 'urban problems' from the early nineteenth century to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Last Taught: Spring 2018, Fall 2016, Spring 2014, Fall 2009. 
Current Offerings: http://uwm.edu/schedule

HIST 478 The American Feminist Movement
3 cr. Undergraduate/Graduate.
History of the American feminist movement from colonial times to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 479 History of Wisconsin Indians
3 cr. Undergraduate/Graduate.
History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

HIST 480 Topics in North American Indian History:
3 cr. Undergraduate/Graduate.
Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

HIST 481 American Science, Race, Ethnicity, and Gender: A Biographical Approach
3 cr. Undergraduate.
Impact of race, ethnicity, and gender on American science and scientists. Focus on scientists of color, biography, biographical myths, and role models.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 482 History of Poverty in America
3 cr. Undergraduate/Graduate.
Social welfare policies and programs (including evolution of social work profession), 1620-present, in light of major developments in American social and intellectual history.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 483 The American Feminist Movement
3 cr. Undergraduate/Graduate.
History of the American feminist movement from colonial times to the present.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Current Offerings: http://uwm.edu/schedule

HIST 484 History of Wisconsin Indians
3 cr. Undergraduate/Graduate.
History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

HIST 485 Topics in North American Indian History:
3 cr. Undergraduate/Graduate.
Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: May be retaken w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule
HIST 475 American Indian History, Law, and Government
3 cr. Undergraduate/Graduate.
American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European Legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.
Prerequisites: jr st; satisfaction of GER English Composition competency req.

HIST 479 Internship in History, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of history in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; satisfaction of GER English Composition competency req; 300-level or above course in Hist; 2.50 gpa; writ cons supervising faculty member & dept chair.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

HIST 595 The Quantitative Analysis of Historical Data
3 cr. Undergraduate/Graduate.
Statistical methods and the computer in analysis of historical problems: statistics through regression; use of social science computer package; special techniques for handling historical data.
Prerequisites: jr st; completion of Oral and Written Communication (OWC) Competency Part A & Quantitative Literacy (QL) Competency Part A GERs.

HIST 597 Fields and Methods in Public History
3 cr. Undergraduate/Graduate.
Career opportunities for historians in historical agencies, focusing on the work and methods of archivists, museum curators, historic preservationists, oral historians, and administrators.
Prerequisites: jr st; completion of GER English Composition competency req; cons coord of public hist.
Current Offerings: http://uwm.edu/schedule

HIST 598 Internship in History, Lower Division
1-6 cr. Undergraduate.
Internship. May be retaken to 6 cr max.
Prerequisites: Hist 288(P), 291(P), 293(P), 294(P), 594(P), 595(P), or 596(P); declared Hist major or Educ/Soc Studies-Broad Field Hist major.
Course Rules: May be retaken w/chg in topic with petition to department chair to 6 cr max.
General Education Requirements: OWCB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HIST 600 Seminar in History:
3 cr. Undergraduate.
In-depth investigation of a period or theme in history. Emphasis on designing and writing a research paper based on primary and secondary sources.
Prerequisites: sr st; satisfaction of GER English Composition & Math Skills competency reqs; Hist 288(P), 291(P), 293(P), 294(P), 594(P), 595(P), or 596(P); declared Hist major or Educ/Soc Studies-Broad Field Hist major.
Course Rules: May be retaken w/chg in topic with petition to department chair to 6 cr max.
General Education Requirements: OWCB & Hist 475 are jointly offered; they count as repeats of one another.

HIST 681 Senior Thesis I
3 cr. Undergraduate.
Senior research project for history majors.
Prerequisites: sr st; satisfaction of GER English Composition competency req; Hist 288(P), 291(P), 293(P), 294(P), 594(P), 595(P), or 596(P); cons faculty thesis advisor & dept chair.
Last Taught: Fall 2013, Summer 2013, Fall 2012, Summer 2011.
Current Offerings: http://uwm.edu/schedule

HIST 682 Senior Thesis II
3 cr. Undergraduate.
Senior research project for history majors.
Prerequisites: Hist 681(P); satisfaction of GER English Composition competency req.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule
HIST 699 Independent Reading:
1-6 cr. Undergraduate.
Advanced independent work under the supervision of a history faculty member. Students must submit study proposal. For more information, consult dept chair, www4.uwm.edu/letsic/history/undergrad/ internships.cfm.
Prerequisites: jr st; satisfaction of GER English Composition competency req; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

HIST 700 Introduction to Public History
3 cr. Graduate.
Seminar on community history, relations between academic history and public history, and uses of material culture and oral history.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HIST 701 Internship in Public History
1-6 cr. Graduate.
Requirements determined and evaluation arranged on an individual basis.
Prerequisites: grad st; cons coord of public history.
Course Rules: Total of 6 cr required for the public history specialization of the M.A. degree and the optional public history minor in the PhD degree.
Current Offerings: http://uwm.edu/schedule

HIST 712 Historiography and Theory of History
3 cr. Graduate.
Seminar on history of historical writing and thought, including such theoretical problems as objectivity, generalization, the nature of historical explanation, and the value of history.
Prerequisites: grad st.
Last Taught: Spring 2017, Spring 2016, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

HIST 713 Historical Research Methods
3 cr. Graduate.
Seminar addressing evaluation of evidence, quantitative methods, and application of social science methodology to historical research.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2016, Fall 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

HIST 715 Research Methods in Local History
3 cr. Graduate.
Seminar on history and methodology of studying small towns, rural areas, cities, and neighborhoods in the United States.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

HIST 716 Professional and Pedagogical Issues in History
3 cr. Graduate.
Seminar on professional and pedagogical aspects of historical work, including course management, lecture writing, grading, and grant writing.
Prerequisites: grad st.
Last Taught: Fall 2015, Spring 2013, Fall 2009, Spring 2008.
Current Offerings: http://uwm.edu/schedule

HIST 717 History and the New Media
3 cr. Graduate.
Seminar on uses of new forms of technology in historical research and teaching.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

HIST 740 Approaches to the Modern I
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped multiple approaches to the modern across the academy.
Prerequisites: grad st.
Course Rules: English 740, Hist 740, & MALLT 740 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Fall 2011, Fall 2007.
Current Offerings: http://uwm.edu/schedule

HIST 741 Approaches to the Modern II
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped approaches to the modern across periods.
Prerequisites: grad st.
Course Rules: English 741, Hist 741 & MALLT 741 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2013, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

HIST 800 Colloquium on U.S. History:
3 cr. Graduate.
Seminar on issues and problems in U.S. history. Specific topics announced in Timetable each time course is offered.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

HIST 805 Colloquium: The Age of Jackson
3 cr. Graduate.
Studies in basic aspects of American history between 1815 and 1848 with emphasis on changing interpretations.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HIST 809 Colloquium on Readings in the Gilded Age, 1877-1901
3 cr. Graduate.
Seminar that surveys historical literature on politics, culture, and society in late 19th century United States.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

HIST 813 Colloquium: Twentieth-Century Problems in American History
3 cr. Graduate.
A study of selected aspects of the American domestic scene and of important contemporary historians and their interpretations of the recent past.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule
HIST 825 Colloquium in the History of the South
3 cr. Graduate.
Studies of aspects of the history of the south with emphasis on changing interpretations.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HIST 831 Colloquium on U.S. Labor History
3 cr. Graduate.
Seminar on topics in the history of the working classes in the U.S. since 1800.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

HIST 833 Colloquium on Urban History:
3 cr. Graduate.
Seminar on issues and problems in urban development and institutions. Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/ chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

HIST 835 Colloquium-Literature of Milwaukee
3 cr. Graduate.
Examination and analysis of the documentation of Milwaukee's history, biography, memoirs, fiction, newspapers and periodicals, government documents and reports, manuscripts, maps, iconographic materials, and physical survivals.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HIST 839 Approaches to Global History
3 cr. Graduate.
Seminar on historiography and practices of global and comparative history.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

HIST 840 Colloquium on Global History:
3 cr. Graduate.
Seminar on historical developments from a global or comparative perspective. Specific topics announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HIST 841 Colloquium on Modern Studies:
3 cr. Graduate.
Seminar on historical developments from a modern studies perspective. Specific topics and any additional prerequisites announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2008.
Current Offerings: http://uwm.edu/schedule

HIST 850 Colloquium on European History.
3 cr. Graduate.
Seminar on issues and problems in European history. Specific topics announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

HIST 859 Colloquium in Medieval Economic History
3 cr. Graduate.
Studies in the economic and social history of the middle ages.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HIST 862 Colloquium in the History of Renaissance and Reformation Europe:
3 cr. Graduate.
Introduction to important primary and secondary sources for the period; historiographical problems; different periods and/or problems are dealt with from semester to semester.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

HIST 868 Colloquium in Modern British History
3 cr. Graduate.
Review basic historical literature on development of British economy, social structure and relations, political institutions, and cultural values since industrial revolution.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HIST 880 Colloquium: European Diplomatic History
3 cr. Graduate.
Studies in modern European diplomatic history, emphasizing historiography, interpretation, and archival sources.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HIST 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

HIST 894 Colloquium in Tropical History: Colonial Rule
3 cr. Graduate.
The colonial period both from the point of view of the European rulers and the colonized peoples of the third world.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule
HIST 989 Colloquium in Modern Chinese History
3 cr. Graduate.
Studies in 19th and 20th century Chinese history with emphasis on the
main thematic approaches employed by Chinese, Japanese, European,
and American historians.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HIST 900 Seminar on U.S. History:
3 cr. Graduate.
Topics in U.S. history. Specific topics announced in Timetable each time
course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HIST 903 Seminar: American Political Hist in Revolutionary & Early
National Periods
3 cr. Graduate.
Studies in American political history in the age of the founding fathers.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HIST 904 Seminar in Modern America
3 cr. Graduate.
Research in United States history since 1921.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

HIST 907 Seminar on U.S. Intellectual and Cultural History
3 cr. Graduate.
Intellectual and cultural figures and movements in U.S. history.
Prerequisites: grad st.
Last Taught: Fall 2014, Fall 2010, Spring 2007, Fall 2005.
Current Offerings: http://uwm.edu/schedule

HIST 924 Seminar In American Economic History
3 cr. Graduate.
Problems in the economic history of the United States.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

HIST 940 Seminar on Global History:
3 cr. Graduate.
Historical developments from a global or comparative perspective.
Specific topics announced in Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

HIST 950 Seminar on European History:
3 cr. Graduate.
Topics in European history. Specific topics announced in Timetable each
time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Fall 2012, Spring 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

HIST 970 Seminar on European Political History
3 cr. Graduate.
State, society, revolution, war and empire in European history.
Prerequisites: grad st.
Last Taught: Fall 2011, Spring 2009, Fall 2006, Fall 2002.
Current Offerings: http://uwm.edu/schedule

HIST 971 Seminar on the History of American Urban Problems
3 cr. Graduate.
Historical analysis of the current problems of housing, race relations, the
powers and functions of municipal government, law enforcement, and
city planning in the United States.
Prerequisites: grad st.
Course Rules: Hist 971 & Urb Std 971 are jointly offered; they count as
repeats of one another.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

HIST 973 Seminar on Non-Western History:
3 cr. Graduate.
Significant themes and eras in the history of non-Western peoples and
nations. Specific topics and any additional prerequisites announced in
Timetable each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

HIST 980 Growth of Urban Society
3 cr. Graduate.
Seminar in historical, social, and ecological growth and development of
urban agglomerations. Comparative framework will be used to examine
the urban process.
Prerequisites: grad st.
Course Rules: Hist 980 & Urb Std 980 are jointly offered; they count as
repeats of one another.
Current Offerings: http://uwm.edu/schedule

HIST 985 Master's Thesis Research
1-6 cr. Graduate.
For students in the thesis option.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HIST 989 Master's Level Independent Work
1-3 cr. Graduate.
Independent study on topics selected in agreement with supervising
professor.
Prerequisites: grad st; cons instr.
Course Rules: Retakable to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

HIST 990 Dissertation Research
1-6 cr. Graduate.
Research or dissertation work for students in the doctoral program in
History.
Prerequisites: grad st; cons instr.
Course Rules: Retakable as necessary to fulfill dissertation requirements.
Current Offerings: http://uwm.edu/schedule
HIST 999 Doctoral Level Independent Work
1-3 cr. Graduate.
Independent study on topics selected in agreement with supervising professor.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Jasmine Alinder</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Margo J. Anderson</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>Rutgers University</td>
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<tr>
<td>Joe Austin</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
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<tr>
<td>Russell H. Bartley</td>
<td>Professor Emeritus</td>
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<td>James Brundage</td>
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<td>Rachel Buff</td>
<td>Professor</td>
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<tr>
<td>Christopher Cantwell</td>
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<td>Cornell University</td>
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<td>Martha Carlin</td>
<td>Professor</td>
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<td>University of Toronto</td>
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<tr>
<td>Greg Carter</td>
<td>Associate Professor</td>
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<td>University of Texas at Austin</td>
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<tr>
<td>Winson Chu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
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<tr>
<td>David DiValerio</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Virginia</td>
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<tr>
<td>Carolyn Eichner</td>
<td>Associate Professor</td>
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<td>University of California-Los Angeles</td>
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<tr>
<td>Christine Evans</td>
<td>Associate Professor</td>
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<td>Bruce S. Fetter</td>
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<td>Marcus Filippello</td>
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<td>Michael A. Gordon</td>
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<td>Thomas Haigh</td>
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<td>University of Pennsylvania</td>
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<tr>
<td>Abbas H. Hamdani</td>
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<td>PhD</td>
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<tr>
<td>J. David Hoeveler Jr.</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Illinois</td>
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<tr>
<td>Reginald Horsman</td>
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<td>PhD</td>
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<td>Douglas Howland</td>
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<td>University of Chicago</td>
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<td>Glen S. Jeansonne</td>
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<td>Nan Kim</td>
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<td>Marc V. Levine</td>
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<td>Genevieve McBride</td>
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<td>Aims McGuinness</td>
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<td>University of Michigan</td>
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<tr>
<td>Jeffrey W. Merrick</td>
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<td>PhD</td>
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<tr>
<td>Stephen Meyer</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Nathan Miller</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Neal H. Pease</td>
<td>Professor</td>
<td>PhD</td>
<td>Yale University</td>
<td></td>
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</tr>
<tr>
<td>Helena M. Pycior</td>
<td>Professor</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
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</tr>
<tr>
<td>Lex Renda</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Virginia</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Joseph A. Rodriguez</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
<td></td>
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</tr>
<tr>
<td>Ronald J. Ross</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Kristin Ruggiero</td>
<td>Professor Emerita</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>
History, BA

Students of History do not just memorize the past. They ask questions about the past in order to solve problems of the present.

History is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, creative problem-solving, and oral and written communication. History majors collect and analyze evidence to construct arguments, pose new interpretations, formulate conclusions, test hypotheses, and communicate new ideas.

There is no typical job for a history major. Our graduates can be found in all types of companies and in all types of roles, as well as graduate programs in History and other related humanities and social science fields. A student’s career choices after college is often guided by how they applied their coursework to real world applications during college. Internships, part-time jobs, and volunteer experiences will help a student network during college and shape their career choices after graduation. The possibilities are numerous, and all students are encouraged to gain practical experience that complements the major.

At UWM, undergraduates can work on research projects such as the Encyclopedia of Milwaukee. The opportunity to participate in research as an undergraduate is a distinct advantage for UWM students. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Students preparing to major in history are encouraged to enroll in several 100- and 200-level courses. Students may combine a major in history with many of the certificate programs or with another departmental major.

History is also available at UWM as an online major - all of the classes for the major can be completed online if desired, or students can mix-and-match assorted online and traditional-format classes.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
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<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
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</tr>
<tr>
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<td>Introduction to College Algebra</td>
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</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
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<tr>
<td></td>
<td>Or equivalent course</td>
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</tr>
<tr>
<td></td>
<td>Part B Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
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<tr>
<td></td>
<td>Select 3 credits</td>
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<tr>
<td></td>
<td>Humanities</td>
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<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
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<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
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</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
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<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
</tbody>
</table>
### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement.

### College of Letters & Science Requirements

#### I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

#### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
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</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

#### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

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<tbody>
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<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

3. Select 3 credits

   Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

   Complete 9 credits in combination of the two options above.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
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</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

4. Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.

5. Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
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<th>Code</th>
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<tbody>
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</tr>
</tbody>
</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

6. Select 3 credits

   Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.

7. Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.

8. Complete 9 credits in combination of the two options above.

### Courses

#### SOCIOL 261

Introduction to Statistical Thinking in Sociology

**Note:** This is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

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**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

3. Select 3 credits

   Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

   Complete 9 credits in combination of the two options above.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

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

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

4. Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.

5. Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

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<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

6. Select 3 credits

   Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.

7. Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.

8. Complete 9 credits in combination of the two options above.
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *

Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

History Major Requirements
History majors must maintain a 2.500 GPA in all history credits attempted at UWM and a 2.500 GPA in all history credits attempted at all institutions attended, collectively. No more than 6 of the 36 credits applied to the major may be earned in independent study courses (HIST 199 or HIST 699). Note that in all courses taken in the major on a credit/no credit basis (whether applied to the major or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA. History majors must enroll in and complete at least 18 credits in courses numbered 300 or above, of which 15 must be taken in residence at UWM.

Note: Specific courses may count toward the fulfillment of more than one requirement. For example, HIST 101 counts toward the fulfillment of both requirement #1 and requirement #4.

History majors are required to take 36 credits of coursework distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>Western Civilization: Ancient World to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 131</td>
<td>World History to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 203</td>
<td>The History of Medieval Europe: The Early Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 204</td>
<td>The History of Medieval Europe: The High Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 235</td>
<td>English History to 1688</td>
<td>3</td>
</tr>
<tr>
<td>HIST 274</td>
<td>Ancient Egyptian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
<td>3</td>
</tr>
<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
<td>3</td>
</tr>
<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 318</td>
<td>Medieval Civilization: The High Middle Ages</td>
<td>3</td>
</tr>
</tbody>
</table>

Students should pay particular attention to requirements #6 and #7. They will not be permitted to enroll in HIST 600 until after they have taken and passed one of the courses in historical methods listed under #6. This sequence may not be reversed and students cannot take both courses in the same semester. Prospective majors should fulfill the methods requirement at an early stage of their progress in the curriculum, in no case later than the next-to-last semester before they plan to graduate.

Course lists delineating approved European, U.S., non-Western or global, and pre-1500 history courses offered at UWM are below.

Ancient and Medieval History (Pre-1500) Requirements
The following courses satisfy the pre-1500 requirement of the History major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 294</td>
<td>Seminar on Historical Method: Research Techniques</td>
<td></td>
</tr>
<tr>
<td>HIST 594</td>
<td>Methods and Theory in the Historical Study of Religion:</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>HIST 596</td>
<td>Maps as Historical Sources</td>
<td></td>
</tr>
<tr>
<td>HIST 600</td>
<td>Seminar in History:</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who complete the senior thesis (see below) may substitute the thesis courses for HIST 600.
HIST 319  The Era of the Crusades  3  
HIST 320  History of Medieval Warfare  3  
HIST 325  The Renaissance  3  
HIST 376  History of Ancient China, Earliest Times to 220 A.D.  3  
HIST 394  History of Japan to 1600  3  

The following variable topic courses satisfy the pre-1500 requirement of the History major if the specific topic deals preponderantly with the era prior to 1500:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>HIST 192</td>
<td>First-Year Seminar:</td>
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<tr>
<td>HIST 193</td>
<td>First-Year Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 270</td>
<td>Topics in American History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 290</td>
<td>Topics in Global History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 297</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>HIST 299</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought:</td>
<td>3</td>
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<tr>
<td>HIST 371</td>
<td>Topics in European History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 372</td>
<td>Topics in Global History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 373</td>
<td>Topics in Gender and History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar:</td>
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<tr>
<td>HIST 399</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 400</td>
<td>Topics in Latin American and Caribbean History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 401</td>
<td>Topics in Middle Eastern History:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 402</td>
<td>Topics in Asian History:</td>
<td>3</td>
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<td>HIST 497</td>
<td>Study Abroad:</td>
<td>1-12</td>
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<td>HIST 499</td>
<td>Ad Hoc:</td>
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<tr>
<td>HIST 594</td>
<td>Methods and Theory in the Historical Study of Religion:</td>
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<tr>
<td>HIST 600</td>
<td>Seminar in History:</td>
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<tr>
<td>HIST 681</td>
<td>Senior Thesis I</td>
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</tr>
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<td>HIST 682</td>
<td>Senior Thesis II</td>
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</tr>
<tr>
<td>HIST 699</td>
<td>Independent Reading:</td>
<td>1-6</td>
</tr>
</tbody>
</table>

Because individual student topics in Hist 600 can vary, that course, with the instructor's approval, may count toward the pre-1500 requirement for certain students, as determined by the predominant focus of their individual work in the course.

**Cross-Listed Courses**

PORTUGS 360, with the topic “History of Brazil,” may be used to fulfill requirements of the undergraduate major or minor in history. It counts as a non-Western/global history course.

**Categorization of Courses by Geographic Area**

The following lists indicate the geographic areas towards which courses count in the fulfillment of the major and minor requirements. (Note that some courses do not satisfy any of the geographic area distribution requirements and that for variable-topic courses, the geographic area is determined by the specific topic).

**European History**

<table>
<thead>
<tr>
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<tr>
<td>HIST 101</td>
<td>Western Civilization: Ancient World to 1500</td>
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<tr>
<td>HIST 102</td>
<td>Western Civilization: 1500 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 203</td>
<td>The History of Medieval Europe: The Early Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 204</td>
<td>The History of Medieval Europe: The High Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 206</td>
<td>Europe and the Modern World: 1815 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 235</td>
<td>English History to 1688</td>
<td>3</td>
</tr>
<tr>
<td>HIST 236</td>
<td>Britain Since 1688: Rise and Decline of a Great Power</td>
<td>3</td>
</tr>
<tr>
<td>HIST 239</td>
<td>Poland and its Neighbors, 1795-1914</td>
<td>3</td>
</tr>
<tr>
<td>HIST 241</td>
<td>Women and Gender in Europe: 1350 to 1750</td>
<td>3</td>
</tr>
<tr>
<td>HIST 242</td>
<td>Women and Gender in Europe: 1750 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 248</td>
<td>The First World War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 249</td>
<td>The Second World War in Europe</td>
<td>3</td>
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<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
<td>3</td>
</tr>
<tr>
<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
<td>3</td>
</tr>
<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
<td>3</td>
</tr>
<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 318</td>
<td>Medieval Civilization: The High Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 319</td>
<td>The Era of the Crusades</td>
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<tr>
<td>HIST 320</td>
<td>History of Medieval Warfare</td>
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<tr>
<td>HIST 325</td>
<td>The Renaissance</td>
<td>3</td>
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<tr>
<td>HIST 326</td>
<td>The Reformation</td>
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<tr>
<td>HIST 329</td>
<td>The Roman Catholic Church, 1500 to the Present</td>
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<tr>
<td>HIST 330</td>
<td>The Papacy in History</td>
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<tr>
<td>HIST 341</td>
<td>Imperial Russia</td>
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<tr>
<td>HIST 343</td>
<td>Russia Since 1917</td>
<td>3</td>
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<tr>
<td>HIST 346</td>
<td>Poland and Its Neighbors, 1914-1945</td>
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<tr>
<td>HIST 348</td>
<td>Poland and Its Neighbors, 1945 to the Present</td>
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<tr>
<td>HIST 355</td>
<td>Modern and Contemporary France</td>
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<tr>
<td>HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
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<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
<td>3</td>
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<tr>
<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
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<tr>
<td>HIST 371</td>
<td>Topics in European History:</td>
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</tr>
<tr>
<td>HIST 375</td>
<td>Contemporary European History, 1945 to the Present</td>
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**U.S. History**

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<tr>
<td>HIST 150</td>
<td>Multicultural America</td>
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<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877</td>
<td>3</td>
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<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 215</td>
<td>History of Capitalism</td>
<td>3</td>
</tr>
<tr>
<td>HIST 229</td>
<td>History of Race, Science, and Medicine in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 243</td>
<td>History of Women in American Society</td>
<td>3</td>
</tr>
<tr>
<td>HIST 262</td>
<td>North American Indian History to 1887</td>
<td>3</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887</td>
<td>3</td>
</tr>
<tr>
<td>HIST 267</td>
<td>The History of Latinos in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 268</td>
<td>History of the American West</td>
<td>3</td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HIST 270</td>
<td>Topics in American History:</td>
<td>3</td>
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<tr>
<td>HIST 271</td>
<td>The 1960s in the United States: A Cultural History</td>
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<tr>
<td>HIST 404</td>
<td>Topics in American History:</td>
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<tr>
<td>HIST 405</td>
<td>The Age of the American Revolution, 1750-1789</td>
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<tr>
<td>HIST 409</td>
<td>Causes of the Civil War, 1828-1861</td>
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<tr>
<td>HIST 410</td>
<td>Civil War and Reconstruction: The United States, 1861-1877</td>
<td>3</td>
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<tr>
<td>HIST 418</td>
<td>America in Prosperity, Depression and War, 1921-1945</td>
<td>3</td>
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<tr>
<td>HIST 419</td>
<td>America Since 1945</td>
<td>3</td>
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<tr>
<td>HIST 432</td>
<td>North American Environmental History</td>
<td>3</td>
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<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
<td>3</td>
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<tr>
<td>HIST 435</td>
<td>Ethnic America: To 1880</td>
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<td>HIST 436</td>
<td>Immigrant America Since 1880</td>
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<tr>
<td>HIST 440</td>
<td>History of the American Working Classes</td>
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<tr>
<td>HIST 445</td>
<td>African Americans from Slavery to Freedom</td>
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<tr>
<td>HIST 446</td>
<td>African Americans Since the Civil War</td>
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<tr>
<td>HIST 448</td>
<td>Baseball in American History</td>
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<td>HIST 449</td>
<td>Popular Culture in America, 1800 to the Present</td>
<td>3</td>
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<tr>
<td>HIST 450</td>
<td>Growth of Metropolitan Milwaukee</td>
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<tr>
<td>HIST 451</td>
<td>History of Wisconsin</td>
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**Non-Western or Global History**

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<tbody>
<tr>
<td>HIST 452</td>
<td>History of Religion in American Life to 1870</td>
<td>3</td>
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<tr>
<td>HIST 453</td>
<td>History of Religion in American Life Since 1870</td>
<td>3</td>
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<tr>
<td>HIST 455</td>
<td>American Science, Race, Ethnicity, and Gender: A Biographical Approach</td>
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<td>HIST 460</td>
<td>The History of Poverty in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 463</td>
<td>History of the American City</td>
<td>3</td>
</tr>
<tr>
<td>HIST 468</td>
<td>The American Feminist Movement</td>
<td>3</td>
</tr>
<tr>
<td>HIST 473</td>
<td>History of Wisconsin Indians</td>
<td>3</td>
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<tr>
<td>HIST 474</td>
<td>Topics in North American Indian History</td>
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<tr>
<td>HIST 475</td>
<td>American Indian History, Law, and Government</td>
<td>3</td>
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<tr>
<td>HIST 597</td>
<td>Fields and Methods in Public History</td>
<td>3</td>
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</table>
HIST 402  Topics in Asian History:  3
HIST 596  Maps as Historical Sources  3

Geographic Area Determined by Specific Topic

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<tr>
<td>HIST 192</td>
<td>First-Year Seminar:</td>
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<td>HIST 193</td>
<td>First-Year Seminar:</td>
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<tr>
<td>HIST 199</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues:</td>
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<td>HIST 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
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<tr>
<td>HIST 297</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>HIST 299</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought:</td>
<td>3</td>
</tr>
<tr>
<td>HIST 373</td>
<td>Topics in Gender and History:</td>
<td>3</td>
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<td>HIST 398</td>
<td>Honors Seminar:</td>
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<td>HIST 399</td>
<td>Honors Seminar:</td>
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</tr>
<tr>
<td>HIST 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 594</td>
<td>Methods and Theory in the Historical Study of Religion:</td>
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<td>HIST 600</td>
<td>Seminar in History:</td>
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<tr>
<td>HIST 681</td>
<td>Senior Thesis I</td>
<td>3</td>
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<td>HIST 682</td>
<td>Senior Thesis II</td>
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<tr>
<td>HIST 699</td>
<td>Independent Reading:</td>
<td>1-6</td>
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</tbody>
</table>

The geographic area of concentration in sections of Hist 600, where the area is not obvious in the title, by default is designated in accordance with the primary teaching and research interests of the instructor. In such cases, and with the instructor’s approval, Hist 600 can count toward different areas for different students, as determined by the predominant focus of their individual work in the course. Note that a variable topic course cannot be considered “Non-Western or Global” unless at least a substantial part of the course’s focus includes the study of African, Asian, Middle Eastern, or Latin American history.

No Geographic Area

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<td>HIST 289</td>
<td>Internship in History. Lower Division</td>
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<td>HIST 293</td>
<td>Seminar on Historical Method: Theory and Approach</td>
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<tr>
<td>HIST 294</td>
<td>Seminar on Historical Method: Research Techniques</td>
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<td>HIST 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
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<tr>
<td>HIST 489</td>
<td>Internship in History. Upper Division</td>
<td>1-6</td>
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<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
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</table>

Senior Thesis Option

Students choosing this two-semester sequence (HIST 681-HIST 682) write a substantial research paper on a topic of their choice in consultation with a faculty thesis advisor. The prerequisite for HIST 681 is at least one of the following courses: HIST 293, HIST 294, HIST 594, HIST 595, or HIST 596. Students also must receive approval from the faculty thesis advisor and department chair prior to enrolling. With the consent of the faculty thesis advisor and the department chair, history majors with a GPA of 3.333 (B+) or higher in all history credits attempted, including transfer work, may take the thesis sequence in lieu of Hist 600 to satisfy (in part) major requirements and the L&S research requirement. Access and print out the senior thesis proposal form (http://uw.edu/history/wp-content/uploads/sites/212/2016/01/senior-thesis-form.pdf) (PDF).

Independent Study

Independent study is not a substitute for courses regularly available in the curriculum. Students who wish to enroll in independent study (HIST 199 for freshmen and sophomores; HIST 699 for juniors and seniors) must have a minimum GPA of 2.500 in credits attempted at UWM. It is recommended that students work only with faculty members from whom they previously have taken regular classes. Students may not enroll in HIST 199 or HIST 699 for work already completed. When enrolling in HIST 199 or HIST 699, students shall select the section number of the faculty member who will supervise their work.

After consultation with the supervising faculty member, students must print out and complete an independent study form (http://uw.edu/history/wp-content/uploads/sites/212/2015/09/independentsudy.pdf) (PDF). This form contains the description of the independent study proposal, and it should be completed during the first two weeks of the semester. The supervising faculty member must approve the proposal and return the signed form to the department office for endorsement by the department chair as well as by the Dean. A student should not take more than three credits of independent study in one semester from the same faculty member. History majors may take no more than 6 of the required 36 credits in History in independent study, and a maximum of 3 credits of independent study may count toward the minor.

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uw.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uw.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in.
In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

History Academic Advising
For academic advice, as well as for information on how to declare a major or minor in history, visit the undergraduate program web page of the Department of History at uwm.edu/history/undergraduate/ (http://uwm.edu/history/undergraduate).

Honors in the College of Letters and Science
Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, history@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/history/undergraduate/

History, MA
The Department of History offers MA and PhD programs that prepare students for careers in teaching, in historical research, and in archives, historical agencies, museums, libraries and government. The Department offers a wide array of geographically, chronologically and thematically defined courses.

At the master's level, the Department offers four options:
Credits and Courses

General History Option A: Thesis Option

Minimum degree requirement is 30 graduate credits, at least 24 of which must be taken in History. Required credit distribution:

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<tr>
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<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
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<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
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<tr>
<td>Select 6 credits in two colloquia</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in two seminars</td>
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<td></td>
</tr>
<tr>
<td>Select 6 credits in thesis</td>
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</tr>
<tr>
<td>Select 9 credits in electives in consultation with the student's advisor</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Academic Review and Thesis Prospectus

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option A students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student’s Major Professor and two other members of the History Graduate Faculty who will serve as secondary readers of the student's thesis. With the assistance of his or her Major Professor, the student must prepare a thesis prospectus in advance of the Review. The Review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the reading list for the comprehensive exam.

Thesis

The student must write an acceptable thesis.

Comprehensive Examination

The student must pass a written and oral comprehensive examination.

Time Limit

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

Urban Historical Studies Specialization

This specialization combines historical approaches with those of the social sciences in studying urban processes, organizations, and society. It is designed to meet the needs of students who intend to enter the interdisciplinary Urban Studies Ph.D. program or a similar program after completion of the Master of Arts degree.

Degree Requirements

The minimum degree requirement is 33 graduate credits distributed in the following manner:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credits in History colloquia (800 numbered courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HIST 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 additional credits in History seminars (900 numbered course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 985</td>
<td>Master’s Thesis Research</td>
<td>6</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
<td></td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
<td></td>
</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>

Thesis

A thesis is required in this specialization.

Comprehensive Examination

The student must pass an oral defense of the thesis.

Time Limit

The student must complete all degree requirements within five years of initial enrollment.
History, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. **All degree requirements of each component must be satisfied.**
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MA History

A Master of Arts in History/Master of Library and Information Science program to prepare students for positions as archivists, 48 credits.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other MLIS courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

Important

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

Within the coordinated degree program, the minimum requirement for the MA in History is 30 graduate credits. Course distribution requirements are the same as those for General History Option A or Option B above, but the 3 elective credits for Option A and 6 of the elective credits for Option B can be selected from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

These elective credits also can be used to satisfy degree requirements for the MLIS. For both Option A and Option B, at least 24 credits must be taken in History graduate courses.

General History Option A: Thesis Option

Minimum degree requirement is 30 graduate credits, at least 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712 or HIST 713</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 712 or HIST 713</td>
<td>Historical Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credits in two colloquia 1</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits in two seminars</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits in thesis</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 9 credits in electives in consultation with the student’s advisor</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

General History Option B: Non-Thesis Option

Minimum degree requirement is 30 graduate credits, 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712 or HIST 713</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 712 or HIST 713</td>
<td>Historical Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credits in two colloquia (800 numbers) 1</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 6 credits in two seminars (900 numbers)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select 15 credits in electives in consultation with the student’s advisor</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Academic Review and Comprehensive Examination Reading List

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option B students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student’s Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student’s comprehensive exam. With the assistance of his or her Major Professor, the student must prepare a reading list for the comprehensive exam in advance of the Review. The Review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the reading list for the comprehensive exam.
Program Requirements

Comprehensive Examination
The student must pass a written and oral comprehensive examination.

Thesis (Option A)
Not required, but with the approval of the Director of Graduate Studies in History, the student may substitute a thesis for the comprehensive examination requirement. MA/MLIS students who write a thesis are subject to the Academic Review and Thesis Prospectus requirements outlined above for Option A.

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

History, MA: Public History

The Department of History offers MA and PhD programs that prepare students for careers in teaching, in historical research, and in archives, historical agencies, museums, libraries and government. The Department offers a wide array of geographically, chronologically and thematically defined courses.

At the master's level, the Department offers four options:

1. A general degree in History;
2. A specialization in Public History for those interested in areas such as museum work, archival administration and historic preservation;
3. A coordinated Master of Arts/Master of Library and Information Science degree program;
4. A specialization in Urban Historical Studies for students who intend to pursue a PhD in Urban Studies or in Urban History.

At the doctoral level, the Department offers the PhD in History.

The Department also participates in the interdisciplinary master's and doctoral programs in Urban Studies. For more information, see Urban Studies (p. 1778).

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
To be considered for admission, an applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements:

1. An undergraduate minor or 18 credits in history or equivalent preparation.
2. Two letters of recommendation from persons familiar with the applicant's scholastic achievement and potential.
3. A sample of the applicant's written work that demonstrates his or her ability to conduct historical research and/or the ability to analyze critically the work of others.
4. Scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (General Test only).

Please visit the History department's website for information on the History Department Application (http://www4.uwm.edu/letsci/history/graduate/gradapply.cfm).

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted toward the degree.

Advising
The Director of Graduate Studies provides initial advising for students in selecting courses and assists in selecting a Major Professor for long-term advising; the Director may assign a provisional graduate advisor before students select a Major Professor. Students are required to consult periodically with, and have their schedules approved by, the Director of Graduate Studies, the provisional advisor, or the Major Professor. The Major Professor normally serves as the chair of the student's academic review and supervises either the writing of the student's thesis or the student's reading for the comprehensive exam.

Credits and Courses

General History Option A: Thesis Option

Minimum degree requirement is 30 graduate credits, at least 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits in two colloquia 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits in two seminars</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits in thesis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 9 credits in electives in consultation with the student's advisor</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Academic Review and Thesis Prospectus
Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option A students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student's Major Professor and two other members of the History Graduate Faculty who will serve as secondary readers of the student's thesis. With the assistance of his or her Major Professor, the student must prepare a thesis prospectus in advance of the Review. The Review involves an evaluation of the student's academic progress in master's coursework, two unrevised course papers, and the thesis prospectus.

Thesis
The student must write an acceptable thesis.

Thesis Defense
The student must pass an oral examination in defense of the thesis.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.
General History Option B: Non-Thesis Option

Minimum degree requirement is 30 graduate credits, 24 of which must be taken in History. Required credit distribution:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
</tbody>
</table>

Select 6 credits in two colloquia (800 numbers)  
Select 6 credits in two seminars (900 numbers)  
Select 15 credits in electives in consultation with the student's advisor

Total Credits 30

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Academic Review and Comprehensive Examination Reading List

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Option B students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student’s Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student’s comprehensive exam. With the assistance of his or her Major Professor, the student must prepare a reading list for the comprehensive exam in advance of the Review. The Review involves an evaluation of the student's academic progress in master's coursework, two unrevised course papers, and the reading list for the comprehensive exam.

Thesis

Not required.

Comprehensive Examination

The student must pass a written and oral comprehensive examination.

Time Limit

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

Urban Historical Studies Specialization

This specialization combines historical approaches with those of the social sciences in studying urban processes, organizations, and society. It is designed to meet the needs of students who intend to enter the interdisciplinary Urban Studies Ph.D. program or a similar program after completion of the Master of Arts degree.

Degree Requirements

The minimum degree requirement is 33 graduate credits distributed in the following manner:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credits in History colloquia (800 numbered courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HIST 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 additional credits in History seminars (900 numbered course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 985</td>
<td>Master's Thesis Research</td>
<td>6</td>
</tr>
</tbody>
</table>

Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB STD 901</td>
<td>Seminar: Urban Social Structure</td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
</tr>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
</tr>
</tbody>
</table>

Total Credits 33

Thesis

A thesis is required in this specialization.

Thesis Defense

The student must pass an oral defense of the thesis.

Time Limit

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

Credits and Courses

Public History Specialization

Minimum degree requirement is 36 graduate credits, 18 of which must be taken in general history courses, the remaining 18 in public history courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General History Select 6 credits in colloquia 1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in seminars</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HIST 715</td>
<td>Research Methods in Local History</td>
<td>3</td>
</tr>
<tr>
<td>Select 3 credits in electives</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Public History

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 700</td>
<td>Introduction to Public History (taken in the first semester of the first year)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 701</td>
<td>Internship in Public History</td>
<td>6</td>
</tr>
</tbody>
</table>

Select 9 credits in public history that pertain to the area in which the student specializes in

Total Credits 36

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Tracks

Students must select from one of the following tracks:

- Museum Studies
- Archives
- Historic Preservation
- Thesis

Museum Studies Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General History Select 6 credits in colloquia 1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in seminars</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
HIST 715 Research Methods in Local History 3

Public History

HIST 700 Introduction to Public History (taken in the first semester of the first year) 3

Select one of the following: 6

HIST 701 Internship in Public History

Thesis (to be taken by students in the thesis track; see tracks below)

Specialization

ANTHRO 720 History and Theory of Museums 3

ANTHRO 721 Administration and Organization of Museums 3

ANTHRO 722 Visitor Experience and Design in Museums 3

ANTHRO 723 Museum Curation 3

Total Credits 36

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Archives Track

Code Title Credits

General History
Select 6 credits in colloquia 1 6
Select 6 credits in seminars 6
HIST 715 Research Methods in Local History 3
Select 3 credits in electives 3

Public History

HIST 700 Introduction to Public History (taken in the first semester of the first year) 3

Select one of the following: 6

HIST 701 Internship in Public History

Thesis (to be taken by students in the thesis track; see tracks below)

Specialization
Select three of the following: 9

INFOST 650 An Introduction to Modern Archives Administration

INFOST 850 Seminar in Modern Archives Administration

INFOST 750 Arrangement and Description in Archives

INFOST 752 Archival Outreach: Programs and Services

INFOST 759 Fieldwork in Archives and Manuscripts

Total Credits 36

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Historic Preservation Track

Code Title Credits

General History
Select 6 credits in colloquia 1 6
Select 6 credits in seminars 6
HIST 715 Research Methods in Local History 3

Select 3 credits in electives 3

Public History

HIST 700 Introduction to Public History (taken in the first semester of the first year) 3

Select one of the following: 6

HIST 701 Internship in Public History

Thesis (to be taken by students in the thesis track; see tracks below)

Specialization
Select three of the following: 9

ARTHIST 459 American Architecture

ARCH 551 American Vernacular Architecture

ARCH 560 Introduction to Historic Preservation

ARCH 760 History of Building Technology

Total Credits 36

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Historic Preservation

ARCH 300 Architectural History and Theory 3

ARCH 551 American Vernacular Architecture 3

ARCH 560 Introduction to Historic Preservation 3

ARTHIST 459 American Architecture 3

ARCH 533 Topics in Architectural Theory: 3

ARCH 561 Measured Drawing for Architects 3

ARCH 562 Preservation Technology Laboratory 3

Total Credits 45

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

Thesis Track

Students in the thesis track write a thesis in public history instead of pursuing an internship.

Code Title Credits

General History
Select 6 credits in colloquia 1 6
Select 6 credits in seminars 6

1 Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.
are to be supervised and evaluated by the Coordinator and the host.

All internships must be approved by the Public History Coordinator and the host.

Internship

All internships must be approved by the Public History Coordinator and are to be supervised and evaluated by the Coordinator and the host. Internships, part-time jobs, and volunteer experiences will help a student match assorted online and traditional-format classes. For the minor can be competed online if desired, or students can mix-and-match assorted online and traditional-format classes.

Thesis Option for Students in Non-Thesis Tracks

A thesis is not required for students in the museum studies, archives, and historical preservation tracks, but with the approval of the Public History Coordinator these students may write a thesis in public history, which will add 6 credits to the 36-credit Public History specialization. Public History students who write a thesis are subject to the Academic Review and Thesis Prospectus requirements outlined above for the General History Option A.

Comprehensive Examination

Not required.

Time Limit

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

History, Minor

Students of History do not just memorize the past. They ask questions about the past in order to solve problems of the present.

History is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, creative problem-solving, and oral and written communication. History majors collect and analyze evidence to construct arguments, propose new interpretations, formulate conclusions, test hypotheses, and communicate new ideas.

There is no typical job for a history major. Our graduates can be found in all types of companies and in all types of roles, as well as graduate programs in History and other related humanities and social science fields. A student's career choices after college is often guided by how they applied their coursework to real world applications during college. Internships, part-time jobs, and volunteer experiences will help a student network during college and shape their career choices after graduation. The possibilities are numerous, and all students are encouraged to gain practical experience that complements the major.

At UWM, undergraduates can work on research projects such as the Encyclopedia of Milwaukee. The opportunity to participate in research as an undergraduate is a distinct advantage for UWM students. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

History is also available at UWM as an online minor - all of the classes for the minor can be competed online if desired, or students can mix-and-match assorted online and traditional-format classes.

### Interdisciplinary Recommendations

The following are recommended interdisciplinary courses (others may be chosen with the approval of the Public History coordinators):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 803</td>
<td>Survey of Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 302</td>
<td>Architecture and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 363</td>
<td>Modern Sculpture: 1880-1945</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 458</td>
<td>A Comparative History of Architecture and Urbanism:</td>
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<td>ARTHIST 901</td>
<td>Problems in Art History:</td>
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<tr>
<td>ENGLISH 630</td>
<td>Seminar in Literature and the Other Arts:</td>
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<tr>
<td>ENGLISH 741</td>
<td>Approaches to the Modern II</td>
<td>3</td>
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<tr>
<td>ENGLISH 885</td>
<td>Seminar in Critical Theory.</td>
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<tr>
<td>JAMS 562</td>
<td>Media Studies and Culture</td>
<td>3</td>
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<tr>
<td>JAMS 815</td>
<td>Media and Cultural Studies</td>
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<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
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<td>INFOST 655</td>
<td>Information and Records Management:</td>
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<tr>
<td>SOCIOL 927</td>
<td>Seminar in Sociology of Contemporary Institutions:</td>
<td>3</td>
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<td>SOCIOL 928</td>
<td>Seminar in Social Organization:</td>
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<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td>3</td>
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</table>

Within the first semester after completing 9 credits (including two of the following courses: HIST 700, HIST 715, a colloquium, and/or a seminar), public history students who choose to write a thesis are subject to an academic review. The review is a one- to two-hour meeting involving the student, the student's major professor, and two other members of the History Graduate Faculty who will serve as secondary readers of the student's thesis. With the assistance of his or her major professor, the student must prepare a thesis prospectus in advance of the review. The review involves an evaluation of the student's academic progress in master's coursework, two unrevised course papers, and the thesis prospectus.
Requirements

History minors are required to take a minimum of 18 credits of coursework distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select at least 3 credits in European history</td>
<td>3</td>
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<tr>
<td></td>
<td>Select at least 3 credits in U.S. history</td>
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<tr>
<td></td>
<td>Select at least 3 credits in non-Western or global history</td>
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<tr>
<td></td>
<td>Select at least 9 credits in courses numbered 300 or above taken in residence at UWM</td>
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<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>18</strong></td>
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</tbody>
</table>

History minors must maintain a 2.500 GPA in all history courses attempted at UWM and a 2.500 GPA in all history credits attempted at all institutions attended, collectively. No more than 3 of the 18 credits applied to the minor may be earned in independent study courses (HIST 199 or HIST 699). Note that in all courses taken in the minor on a credit/no credit basis (whether applied to the requirements of the minor or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA.

Note: Specific courses may count toward the fulfillment of more than one requirement. For example, HIST 307 counts toward the fulfillment of both requirement #1a and requirement #2.

Course lists delineating approved European, U.S., non-Western or global, and pre-1500 history courses offered at UWM are below.

Cross-Listed Courses

PORTUGS 360, with the topic “History of Brazil,” may be used to fulfill requirements of the undergraduate major or minor in history. It counts as a non-Western/global history course.

Categorization of Courses by Geographic Area

The following lists indicate the geographic areas towards which courses count in the fulfillment of the major and minor requirements. (Note that some courses do not satisfy any of the geographic area distribution requirements and that for variable-topic courses, the geographic area is determined by the specific topic).

European History

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>HIST 101</td>
<td>Western Civilization: Ancient World to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilization: 1500 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 203</td>
<td>The History of Medieval Europe: The Early Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 204</td>
<td>The History of Medieval Europe: The High Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HIST 206</td>
<td>Europe and the Modern World: 1815 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 235</td>
<td>English History to 1688</td>
<td>3</td>
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<tr>
<td>HIST 236</td>
<td>Britain Since 1688: Rise and Decline of a Great Power</td>
<td>3</td>
</tr>
<tr>
<td>HIST 239</td>
<td>Poland and its Neighbors, 1795-1914</td>
<td>3</td>
</tr>
<tr>
<td>HIST 241</td>
<td>Women and Gender in Europe: 1350 to 1750</td>
<td>3</td>
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<tr>
<td>HIST 242</td>
<td>Women and Gender in Europe: 1750 to the Present</td>
<td>3</td>
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<tr>
<td>HIST 248</td>
<td>The First World War</td>
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<tr>
<td>HIST 249</td>
<td>The Second World War in Europe</td>
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<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
<td>3</td>
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<tr>
<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
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<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
<td>3</td>
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<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td>3</td>
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<tr>
<td>HIST 318</td>
<td>Medieval Civilization: The High Middle Ages</td>
<td>3</td>
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<tr>
<td>HIST 319</td>
<td>The Era of the Crusades</td>
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<tr>
<td>HIST 320</td>
<td>History of Medieval Warfare</td>
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<tr>
<td>HIST 325</td>
<td>The Renaissance</td>
<td>3</td>
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<td>HIST 326</td>
<td>The Reformation</td>
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<tr>
<td>HIST 329</td>
<td>The Roman Catholic Church, 1500 to the Present</td>
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<tr>
<td>HIST 330</td>
<td>The Papacy in History</td>
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<tr>
<td>HIST 341</td>
<td>Imperial Russia</td>
<td>3</td>
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<tr>
<td>HIST 343</td>
<td>Russia Since 1917</td>
<td>3</td>
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<tr>
<td>HIST 346</td>
<td>Poland and Its Neighbors, 1914-1945</td>
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<tr>
<td>HIST 348</td>
<td>Poland and Its Neighbors, 1945 to the Present</td>
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<tr>
<td>HIST 355</td>
<td>Modern and Contemporary France</td>
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<tr>
<td>HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
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<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
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<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
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<tr>
<td>HIST 371</td>
<td>Topics in European History:</td>
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<tr>
<td>HIST 375</td>
<td>Contemporary European History, 1945 to the Present</td>
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U.S. History

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<tr>
<td>HIST 150</td>
<td>Multicultural America</td>
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<tr>
<td>HIST 151</td>
<td>American History: 1607 to 1877</td>
<td>3</td>
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<tr>
<td>HIST 152</td>
<td>American History: 1877 to the Present</td>
<td>3</td>
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<tr>
<td>HIST 215</td>
<td>History of Capitalism</td>
<td>3</td>
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<tr>
<td>HIST 229</td>
<td>History of Race, Science, and Medicine in the United States</td>
<td>3</td>
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<tr>
<td>HIST 243</td>
<td>History of Women in American Society</td>
<td>3</td>
</tr>
<tr>
<td>HIST 262</td>
<td>North American Indian History to 1887</td>
<td>3</td>
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<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887</td>
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<tr>
<td>HIST 267</td>
<td>The History of Latinos in the United States</td>
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<tr>
<td>Code</td>
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<tr>
<td>HIST 268</td>
<td>History of the American West</td>
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<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
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<tr>
<td>HIST 270</td>
<td>Topics in American History:</td>
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<td>HIST 271</td>
<td>The 1960s in the United States: A Cultural History</td>
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<td>HIST 404</td>
<td>Topics in American History:</td>
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<td>HIST 405</td>
<td>The Age of the American Revolution, 1750-1789</td>
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<tr>
<td>HIST 409</td>
<td>Causes of the Civil War, 1828-1861</td>
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<td>HIST 410</td>
<td>Civil War and Reconstruction: The United States, 1861-1877</td>
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<tr>
<td>HIST 418</td>
<td>America in Prosperity, Depression and War, 1921-1945</td>
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<td>HIST 419</td>
<td>America Since 1945</td>
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<tr>
<td>HIST 432</td>
<td>North American Environmental History</td>
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<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
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<td>HIST 435</td>
<td>Ethnic America: To 1880</td>
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<td>HIST 436</td>
<td>Immigrant America Since 1880</td>
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<td>HIST 440</td>
<td>History of the American Working Classes</td>
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<td>HIST 445</td>
<td>African Americans from Slavery to Freedom</td>
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<tr>
<td>HIST 446</td>
<td>African Americans Since the Civil War</td>
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<tr>
<td>HIST 448</td>
<td>Baseball in American History</td>
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<td>HIST 449</td>
<td>Popular Culture in America, 1800 to the Present</td>
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<td>HIST 450</td>
<td>Growth of Metropolitan Milwaukee</td>
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<td>HIST 451</td>
<td>History of Wisconsin</td>
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<td>HIST 452</td>
<td>History of Religion in American Life to 1870</td>
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<tr>
<td>HIST 453</td>
<td>History of Religion in American Life Since 1870</td>
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<td>HIST 455</td>
<td>American Science, Race, Ethnicity, and Gender: A Biographical Approach</td>
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<td>HIST 460</td>
<td>The History of Poverty in America</td>
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<td>HIST 463</td>
<td>History of the American City</td>
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<tr>
<td>HIST 468</td>
<td>The American Feminist Movement</td>
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<td>HIST 473</td>
<td>History of Wisconsin Indians</td>
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<tr>
<td>HIST 474</td>
<td>Topics in North American Indian History:</td>
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<tr>
<td>HIST 475</td>
<td>American Indian History, Law, and Government</td>
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<tr>
<td>HIST 597</td>
<td>Fields and Methods in Public History</td>
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### Non-Western or Global History

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<tr>
<td>HIST 131</td>
<td>World History to 1500</td>
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<tr>
<td>HIST 132</td>
<td>World History Since 1500</td>
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<tr>
<td>HIST 141</td>
<td>The Family and Sex Roles in the Past</td>
<td>3</td>
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<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600</td>
<td>3</td>
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<tr>
<td>HIST 176</td>
<td>East Asian Civilization Since 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 180</td>
<td>Latin American Society and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST 210</td>
<td>The Twentieth Century: A Global History</td>
<td>3</td>
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<tr>
<td>HIST 274</td>
<td>Ancient Egyptian Civilization</td>
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<tr>
<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
<td>3</td>
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<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
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<tr>
<td>HIST 284</td>
<td>Buddhism Across Asia</td>
<td>3</td>
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<tr>
<td>HIST 286</td>
<td>The Korean War</td>
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<td>HIST 287</td>
<td>The Vietnam War</td>
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<td>HIST 290</td>
<td>Topics in Global History:</td>
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<tr>
<td>HIST 295</td>
<td>Historical Encounters:</td>
<td>3</td>
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<td>HIST 372</td>
<td>Topics in Global History:</td>
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<td>HIST 376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
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<td>HIST 377</td>
<td>Modern China</td>
<td>3</td>
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<td>HIST 378</td>
<td>Revolution in China</td>
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<tr>
<td>HIST 379</td>
<td>Introduction to Jewish History</td>
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<td>HIST 380</td>
<td>Buddhism: A Cultural History</td>
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<tr>
<td>HIST 386</td>
<td>Africa: The Age of Empires to 1880</td>
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<td>HIST 387</td>
<td>Africa: Imperialism and Independence Since 1880</td>
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<td>HIST 392</td>
<td>The History of Southern Africa</td>
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<td>HIST 393</td>
<td>History of Mexico</td>
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<tr>
<td>HIST 394</td>
<td>History of Japan to 1600</td>
<td>3</td>
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<td>HIST 395</td>
<td>History of Japan Since 1600</td>
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<td>HIST 400</td>
<td>Topics in Latin American and Caribbean History:</td>
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<td>HIST 401</td>
<td>Topics in Middle Eastern History:</td>
<td>3</td>
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<td>HIST 402</td>
<td>Topics in Asian History:</td>
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<tr>
<td>HIST 596</td>
<td>Maps as Historical Sources</td>
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### Geographic Area Determined by Specific Topic

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<tr>
<td>HIST 192</td>
<td>First-Year Seminar:</td>
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<tr>
<td>HIST 193</td>
<td>First-Year Seminar:</td>
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</tr>
<tr>
<td>HIST 199</td>
<td>Independent Study</td>
<td>1-3</td>
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<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues:</td>
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<td>HIST 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 297</td>
<td>Study Abroad:</td>
<td>1-12</td>
</tr>
<tr>
<td>HIST 299</td>
<td>Ad Hoc:</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought:</td>
<td>3</td>
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<tr>
<td>HIST 373</td>
<td>Topics in Gender and History:</td>
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<td>HIST 398</td>
<td>Honors Seminar:</td>
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<td>HIST 399</td>
<td>Honors Seminar:</td>
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<tr>
<td>HIST 497</td>
<td>Study Abroad:</td>
<td>1-12</td>
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<tr>
<td>HIST 499</td>
<td>Ad Hoc:</td>
<td>1-6</td>
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<tr>
<td>HIST 594</td>
<td>Methods and Theory in the Historical Study of Religion:</td>
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<td>HIST 600</td>
<td>Seminar in History:</td>
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<tr>
<td>HIST 681</td>
<td>Senior Thesis I</td>
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<td>HIST 682</td>
<td>Senior Thesis II</td>
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<tr>
<td>HIST 699</td>
<td>Independent Reading:</td>
<td>1-6</td>
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</table>
The geographic area of concentration in sections of Hist 600, where the area is not obvious in the title, by default is designated in accordance with the primary teaching and research interests of the instructor. In such cases, and with the instructor’s approval, Hist 600 can count toward different areas for different students, as determined by the predominant focus of their individual work in the course. Note that a variable topic course cannot be considered “Non-Western or Global” unless at least a substantial part of the course’s focus includes the study of African, Asian, Middle Eastern, or Latin American history.

### No Geographic Area

<table>
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<tr>
<td>HIST 289</td>
<td>Internship in History, Lower Division</td>
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<tr>
<td>HIST 293</td>
<td>Seminar on Historical Method: Theory and Approach</td>
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<tr>
<td>HIST 294</td>
<td>Seminar on Historical Method: Research Techniques</td>
<td>3</td>
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<tr>
<td>HIST 296</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
</tr>
<tr>
<td>HIST 489</td>
<td>Internship in History, Upper Division</td>
<td>1-6</td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
</tr>
</tbody>
</table>

### Contact Information

Current Students contact the Department directly, history@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/history/undergraduate/

### History, PhD

The Department of History offers MA and PhD programs that prepare students for careers in teaching, in historical research, and in archives, historical agencies, museums, libraries and government. The Department offers a wide array of geographically, chronologically and thematically defined courses.

At the master’s level, the Department offers four options:

1. a general degree in History;
2. a specialization in Public History for those interested in areas such as museum work, archival administration and historic preservation;
3. a coordinated Master of Arts/Master of Library and Information Science degree program;
4. a specialization in Urban Historical Studies for students who intend to pursue a PhD in Urban Studies or in Urban History.

At the doctoral level, the Department offers the PhD in History.

The Department also participates in the interdisciplinary master’s and doctoral programs in Urban Studies. For more information, see the Urban Studies page.

### Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

### Admission

To be considered for admission, an applicant must meet Graduate School admission requirements plus these departmental requirements:

1. A master’s degree in history or a related field
2. Three letters of recommendation from persons familiar with the applicant’s intellectual achievement and potential.
3. A sample of the applicant’s written work that demonstrates his or her ability to conduct historical research and/or the ability to analyze the work of others critically.

Please visit the History department’s website for information on the History Department Application (http://www4.uwm.edu/letsci/history/graduate/gradapply.cfm).

### Credits and Courses

To earn the Ph.D., a student must have accumulated at least 54 graduate credits, at least 30 of them taken at the post-master’s level. (Precise numbers of credits and actual course requirements while in Ph.D. status will be determined after a review of the applicant’s previous coursework.)

Doctoral students may not accumulate more than 6 credits in U/G courses, nor more than 6 credits in independent study without the approval of the Director of Graduate Studies. Of the 54 credits, at least 9 must be in fields other than history. No more than 18 credits in courses outside of History may be counted toward the doctoral degree.

#### Required

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 713</td>
<td>Historical Research Methods</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 712</td>
<td>Historiography and Theory of History (if not taken above)</td>
<td></td>
</tr>
<tr>
<td>HIST 713</td>
<td>Historical Research Methods (if not taken above)</td>
<td></td>
</tr>
<tr>
<td>HIST 715</td>
<td>Research Methods in Local History</td>
<td></td>
</tr>
<tr>
<td>HIST 716</td>
<td>Professional and Pedagogical Issues in History</td>
<td></td>
</tr>
<tr>
<td>HIST 717</td>
<td>History and the New Media</td>
<td></td>
</tr>
<tr>
<td>HIST 990</td>
<td>Dissertation Research (minimum 6 credits)</td>
<td>6</td>
</tr>
</tbody>
</table>

### Electives

Select 12 credits of electives (may include additional dissertation credits) 12

### Total Credits

21

### Advising

The Director of Graduate Studies provides initial advising for the student in selecting courses and assists in selecting a Major Professor for long-term advising; the Director may assign a provisional graduate advisor before students select a Major Professor.

Students are required to consult periodically with, and have their schedules approved by, the Director of Graduate Studies, the provisional advisor, or the Major Professor. The Major Professor helps the student to define a dissertation topic and assists the student in choosing
appropriate courses and in selecting members of the student's Preliminary Examination and Doctoral Committees. The Major Professor normally chairs the student's Preliminary Examination and Doctoral Committees.

**Foreign Language or Data Analysis Proficiency**

Students must demonstrate proficiency in one or more relevant foreign languages by passing a written examination in the translation of source materials or historical analysis. If a student's Major Professor considers proficiency in more than one language necessary to the student's specific plan of study, exams in more than one language may be required.

With the approval of the Major Professor, a student may substitute proficiency in another skill relevant to historical study; in these cases, proficiency will be demonstrated through relevant coursework.

**Minor**

Students are not required to elect a minor field, but they may wish to supplement their chosen specialty in this way. Depending on the particular course array, students may need to take more than 54 credits to complete both the major and minor requirements. Those who wish to take a minor have three options:

**Option A: Minor In One Field**

Working with a minor professor, students take 8-12 credits in a single department, leading to a minor examination.

**Option B: Interdisciplinary Minor**

Students take 8-12 credits in two or more departments, selected for their relevance to the student's area of specialty. The minor will be defined in consultation with the student's Major Professor and the Director of Graduate Studies.

**Option C: Minor in Public History**

This 21-credit minor is appropriate for students planning a career in archives, museums, historic preservation, or other related specialties. It is not available to students who already have a specialization or degree in public history at the master's level. Students in this minor are required to take 12 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 700</td>
<td>Introduction to Public History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 701</td>
<td>Internship in Public History</td>
<td>6</td>
</tr>
<tr>
<td>HIST 715</td>
<td>Research Methods in Local History</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Select 9 credits (see below) 

Total Credits 21

1 Students must take HIST 700 in the first semester of their first year.

**Electives**

The remaining 9 credits in public history must be selected from courses that pertain to the area of public history in which the student wishes to specialize.

For students interested in careers as archivists, electives should be selected from the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 650</td>
<td>An Introduction to Modern Archives Administration</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 850</td>
<td>Seminar in Modern Archives Administration</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 753</td>
<td>Preserving Information Media</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 750</td>
<td>Arrangement and Description in Archives</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 759</td>
<td>Fieldwork in Archives and Manuscripts</td>
<td>3</td>
</tr>
</tbody>
</table>

Students interested in careers in libraries are advised to take at least three of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 720</td>
<td>History and Theory of Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 721</td>
<td>Administration and Organization of Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 722</td>
<td>Visitor Experience and Design in Museums</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 723</td>
<td>Museum Curation</td>
<td>3</td>
</tr>
</tbody>
</table>

Students interested in careers in museums are advised to take at least three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 560</td>
<td>Introduction to Historic Preservation</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 760</td>
<td>History of Building Technology</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 533</td>
<td>Topics in Architectural Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

**Doctoral Preliminary Examination**

The doctoral preliminary examination includes written and oral components designed to demonstrate the breadth of a student's knowledge and the ability to conduct advanced historical research. It must be taken within five years of enrollment in the Ph.D. program.

Students who fail the doctoral preliminary examination may not proceed to the dissertation. The exam may be retaken only once. The Director of Graduate Studies provides specific guidelines for selecting the Doctoral Preliminary Examination Committee and preparing the doctoral preliminary examination proposal.

**Dissertation**

The dissertation is a major piece of original research representing a substantial contribution to historical scholarship. In consultation with the Major Professor, the student chooses a dissertation committee, which must approve the prospectus. The student's Major Professor provides guidance in preparing the prospectus and in developing and writing the dissertation.

**Dissertation Defense**

The candidate must pass an oral examination in defense of the dissertation.

**Time Limit and Residence**

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program. To meet the continuous-year portion of the residence credit requirement, students must complete 8 to 12 graduate credits in each of two consecutive
semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. In exceptional cases, modifications of the residence requirement may be requested, subject to the approval of the History Department and the Graduate School.
HUMAN RESOURCES AND LABOR RELATIONS

The Lubar School of Business and the College of Letters and Science offer and present jointly the Master of Human Resources and Labor Relations (MHRLR).

The MHRLR is an innovative master's program offering students an interdisciplinary blend of courses and faculty in the areas of human resources and labor relations. The MHRLR program prepares students for careers as practitioners, and emphasizes a firm educational grounding in both the liberal arts and business administration. This grounding includes knowledge of human resources, staffing, labor relations, the legal system, and statistics.

Elective courses and options within the core requirements allow students to gain the specialized knowledge needed to work in the human resource management and labor relations areas of: compensation and benefits, collective bargaining, alternative dispute resolution, recruitment and selection, training and development, occupational health and safety, equal employment opportunity, strategic human resource management, and international human resource management.

The program is designed for full-time and part-time students who seek careers in the private or public sectors, and with unions or management.

Programs

- Human Resources and Labor Relations, MHRLR (College of Letters and Science) (p. 1487)
- International Human Resources and Labor Relations, Graduate Certificate (p. 1488)

Industrial and Labor Relations Courses

IND REL 701 Industrial and Labor Relations
3 cr. Graduate.
Industrial relations systems, unions and management as institutions, work place as a socio-economic unit, labor market analysis, human resource management and collective bargaining.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND REL 711 Labor Relations Law
3 cr. Graduate.
Legal aspects of labor relations; operations of National Labor Relations Board, representation issues, use of economic weapons, good faith bargaining, enforcement, Wisconsin Employment Relations Commission.
Prerequisites: grad st or cons instr.
Current Offerings: http://uwm.edu/schedule

IND REL 712 Employment Law
3 cr. Graduate.
Introduction to federal laws and regulations covering such topics as wage standards, unemployment compensation, osha, alien employment, social security, employee safety and prohibited discrimination.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND REL 715 Workplace Dispute Resolution
3 cr. Graduate.
Examination of the processes for dispute resolution; their usefulness and application in both union and non-union settings.
Prerequisites: grad st & Econ 753(P), or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND REL 716 Compensation: Theory and Practice
3 cr. Graduate.
Examination of pay policies and practices, their impact on employees, internal and external determinants, and problems of administration.
Prerequisites: grad st; Bus Adm 731(P) & 738(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

IND REL 717 Employee Benefits
3 cr. Graduate.
Examination of role and scope of employee benefits, their determinants, and problems of administration.
Prerequisites: grad st; Econ 753(R); Ind Rel 712(R).
Current Offerings: http://uwm.edu/schedule

IND REL 720 Economics of Personnel
3 cr. Graduate.
Use of various economic models to examine personnel practices.
Prerequisites: grad st; Econ 103(P) or equiv.
Last Taught: Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

IND REL 725 Total Rewards Compensation
3 cr. Graduate.
Advanced workplace perspective for aligning business and reward strategies including developing, administering and evaluating compensation and benefit programs.
Prerequisites: grad st or cons instr.
Course Rules: Counts as a repeat of Ind Rel 800 w/the same topic.
Current Offerings: http://uwm.edu/schedule

IND REL 731 Research Tools for Practitioners in Human Resources and Labor Relations
3 cr. Graduate.
Planning and carrying out simple surveys; evaluating policies, programs, and procedures in organizations; interpreting, evaluating and using research conducted by others.
Prerequisites: grad st; Econ 210(P) or Bus Adm 210(P) or cons instr.
Course Rules: Ind Rel 731 and BusMgmt 731 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

IND REL 754 Worker Participation
3 cr. Graduate.
Analyzes worker participation programs using history, economic and industrial relations theories, and empirical research and case studies.
Prerequisites: grad st; Econ 447(451)(P) or cons instr.
Course Rules: Jointly-offered w/& counts as repeat of Econ 754.
Current Offerings: http://uwm.edu/schedule
IND REL 800 Current Issues in Industrial Relations:
1-3 cr. Graduate.
Topics course covering subjects such as quality work, innovations, employee testing, dispute resolution.
Prerequisites: grad st; Ind Rel 701(P) or cons instr.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

IND REL 801 Research Project in Industrial and Labor Relations
3 cr. Graduate.
Work with a faculty advisor on the development and preparation of a research project on a current industrial relations issue.
Prerequisites: completion of 24 cr in MHRLR Prog; cons instr.
Current Offerings: http://uwm.edu/schedule

IND REL 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Fall 2016, Summer 2013, Fall 2006, Summer 2006.
Current Offerings: http://uwm.edu/schedule

IND REL 921 Internship in Industrial Relations
1-6 cr. Graduate.
An internship with a company, union or a governmental agency in the field of human resources and labor relations. Project paper required. Retakable to a total of 6 crs.
Prerequisites: grad st; 8 cr in MHRLR Prog completed.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

IND REL 999 Independent Study
1-3 cr. Graduate.
Supervised investigation of a particular topic area either not covered by other industrial relations courses or a level of sophistication beyond that in other courses.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Adams</td>
<td>Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Layth Alwan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Margo Anderson</td>
<td>Distinguished</td>
<td>PhD</td>
<td>Rutgers University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Drewianka</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Chicago</td>
<td></td>
<td></td>
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<tr>
<td>Sarah Freeman</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeannie Hewitt</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Illinois-Chicago</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John Heywood</td>
<td>Distinguished</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
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<tr>
<td>Mark Mone</td>
<td>Professor</td>
<td>PhD</td>
<td>Washington State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belle Rose Ragins</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Tennessee-Knoxville</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hong Ren</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Pennsylvania State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Romila Singh</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Drexel University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Human Resources and Labor Relations, MHRLR (College of Letters and Science)

Related Certificates

- Graduate Certificate in Mediation and Negotiation (http://uwm.edu/graduateschool/mediation-negotiation-certificate)
- Graduate Certificate in International Human Resources and Labor Relations (http://uwm.edu/graduateschool/international-human-resources-labor-relations-certificate)

Overview

The Master of Human Resources and Labor Relations (MHRLR) prepares leaders to be successful professionals. Whether you are currently in the field, a recent college graduate or wish to change careers, MHRLR provides the knowledge necessary to thrive. Our classes emphasize practical application of theory, laying the foundation for your future success.

Jobs in Human Resources will grow faster than average over the next decade. The MHRLR degree allows you to capitalize on that growth and advance in an increasingly complex business environment.

While the majority of our students work full-time in the profession and attend classes part-time, many others choose to attend full time to progress more quickly through the program. Our small classes provide the opportunity to network with both the faculty and fellow human resources and labor relations professionals.

The Lubar School of Business and the College of Letters and Science jointly offer the MHRLR degree.
Application Deadline

Students may begin their studies in the Fall, Spring or Summer semesters. Applications are accepted on a continuous basis. The program does not have a specific deadline to apply.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following requirements to be considered for admission to the MHRLR program:

1. Submission of two letters of recommendation to the MHRLR program.
2. Submission of GRE (http://uwm.edu/graduateschool/admission/#gre) or GMAT (http://uwm.edu/graduateschool/admission/#gmat) scores is recommended, but not required.
3. Students admitted to the program will be expected to present at least three credits of prior work in both microeconomics and introductory statistics.
4. Students who are deficient in the areas of microeconomics or statistics at the time of admission (see above), will be expected to satisfy deficiency requirements within three enrolled semesters. Deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted for the degree.
5. Applicants are reviewed by the MHRLR admissions committee to assess academic achievements and the ability to do intensive graduate-level work.

Credits and Courses

The Master of Human Resources and Labor Relations degree will be awarded upon completion of 36 credits of prescribed graduate study and appropriate prerequisite coursework. The program offers a balance between liberal arts and business-based education, requiring that at least 15 credits be taken within the College of Letters and Science and at least 15 credits be taken within the Lubar School of Business. The MHRLR Program believes in a common body of knowledge and skills necessary to be an effective Human Resource or Labor Relations professional.

The program has a required core of seven courses totaling 21 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND REL 701</td>
<td>Industrial and Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 735</td>
<td>Staffing Organizations</td>
<td>3</td>
</tr>
<tr>
<td>IND REL 720</td>
<td>Economics of Personnel</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 753</td>
<td>Collective Bargaining</td>
<td>3</td>
</tr>
<tr>
<td>IND REL 712</td>
<td>Employment Law</td>
<td>3</td>
</tr>
<tr>
<td>or IND REL 711</td>
<td>Labor Relations Law</td>
<td>3</td>
</tr>
<tr>
<td>IND REL 731</td>
<td>Research Tools for Practitioners in</td>
<td>3</td>
</tr>
<tr>
<td>or BUSMGMT 731</td>
<td>Human Resources and Labor Relations</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 21

1. If IND REL 720 and ECON 753 are both taken, one of these may be used to help fulfill elective requirements.
2. If IND REL 711 and IND REL 712 are both taken, one of these may be used to help fulfill elective requirements.
3. The required course Research Tools for Practitioners in Human Resources and Labor Relations can be taken as either IND REL 731 or BUSMGMT 731 (but not both).

Elective Courses

The choice of electives to complete a MHRLR degree should reflect student interest. Students are not required to choose a specialization and are encouraged to select those electives that best suit their backgrounds and interests. A student may take up to 6 credits from the approved list of alternative electives in other schools such as the College of Nursing, the School of Education, and the School of Social Welfare. No student will be permitted to apply more than nine credits taken at the U/G level toward meeting MHRLR degree requirements. Please refer to the MHRLR website (http://uwm.edu/human-resources-labor-relations/graduate/requirements/elective-courses) for a comprehensive listing of elective courses.

Students without prior experience in the field are encouraged to take advantage of the program’s extensive contacts in the business and labor communities by undertaking one or more internships as either BUS ADM 899 or IND REL 921. Students may also utilize the wide range of faculty expertise available within the program for a major research paper on a human resources or labor relations topic. These papers, under the direction of a faculty advisor, are taken as either IND REL 801 or BUS ADM 899. A student may graduate with honors from the MHRLR program by maintaining a 3.5 grade-point average within the program, and by writing a 3-credit major research paper (under BUS ADM 899 or IND REL 801).

Any new course development, programmatic changes, or program name change must be approved by the appropriate curricular committees and faculty in the respective units.

The program, including admissions and course staffing, is subject to the AACSB accreditation requirements.

International Human Resources and Labor Relations, Graduate Certificate

The Graduate Certificate in International Human Resources and Labor Relations responds to the increasing influence of globalization on the practice of Human Resource Management and the conduct of Labor Relations. Firms and unions are increasingly part of a complex web of international economic relationships. Many of the workplace innovations now taken for granted began overseas: quality circles, work groups and flatter hierarchies. Many firms operate overseas under very different labor market institutions and human resource expectations.

This program of study provides practical and theoretical knowledge designed to help students function as professionals in the increasing broad international context of human resource management and labor relations.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.
Eligibility and Admission

Students applying for the Certificate Program in International Human Resources and Labor Relations must hold a bachelor’s degree and must have earned a 2.75 GPA overall or must furnish substantial evidence of ability to succeed in graduate-level work. Students admitted to the Certificate will be expected to present at least three credits of prior work in microeconomics and three credits in statistics.

Application

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

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IND REL 701</td>
<td>Industrial and Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>ECON 755</td>
<td>Comparative Labor Markets and Employment Relations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 723</td>
<td>Managing and Negotiating Across Cultures</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>or BUS ADM 795</td>
<td>Seminar-in-Management:</td>
<td></td>
</tr>
<tr>
<td>Recommended</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IND REL 999</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 799</td>
<td>Reading and Research</td>
<td></td>
</tr>
<tr>
<td>IND REL 921</td>
<td>Internship in Industrial Relations</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

1 Course substitutions would be allowed with the consent of the MHRLR Director for those who had previously completed similar coursework.

Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement

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

Articulation with Degree Programs

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

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

Time Limit

Certificate program time limits shall be established as follows:

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

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

Contact Information

BLT, 812
Phone: (414) 229-4310
mhrlr@uwm.edu
http://uwm.edu/human-resources-labor-relations/graduate/certificates/
INTERNATIONAL STUDIES

The International Studies (IS) Program is interdisciplinary and administered by faculty members in the College of Letters and Science. Our IS programs offer students an excellent opportunity to improve their understanding of the diverse cultures of the world and to begin developing the skills they need for careers that have an international dimension. Our IS programs have grown steadily over the past 50 years to meet the needs for a more globalized education.

All interested students should consult the International Studies advisor at the earliest opportunity.

Programs

- International Studies, BA (p. 1491)
- International Studies, Minor (p. 1499)

International Studies Courses

INTLST 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

INTLST 250 Introduction to Study Abroad
2 cr. Undergraduate.
Discussion of study abroad programs by addressing objectives, cross-cultural communication; specific programs and pre-departure information.
Prerequisites: none.
Course Rules: No degree cr for students with cr in IntlSt 350 'Studying in the World's Regions'(ER). Cr/no cr only; audit not permitted.
Current Offerings: http://uwm.edu/schedule

INTLST 260 Introduction to International Careers
2 cr. Undergraduate.
Introduction to a wide variety of career options in area of international studies, partly through lectures with academics and professionals from relevant fields.
Prerequisites: none.
Course Rules: No degree cr for students with cr in IntlSt 350 'Careers in the World's Regions'(ER). Cr/no cr only; audit not permitted.
Current Offerings: http://uwm.edu/schedule

INTLST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in a UWM sponsored program before course level, content, and credits are determined and/or in a specially prepared program course. Section title(s) and credits announced whenever course is offered.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Summer 2016, Spring 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

INTLST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’t sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

INTLST 450 Internship in International Studies
2-6 cr. Undergraduate.
Internship offering on the job experience to selected majors in international studies. Student enrolls for a specific number of credits.
Prerequisites: jr or sr st; gpa of 3.0; writ cons prog coord.
Course Rules: Retakable to 6 cr max. Cr/no cr only; audit not permitted.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

INTLST 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

INTLST 498 Applied Foreign Language
1 cr. Undergraduate.
Independent reading in a foreign language as companion to courses in international studies. To be arranged with International Studies coordinator.
Prerequisites: 2 yrs college-level work in a foreign language or equiv; cons IntlSt coord.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

INTLST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’t sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

INTLST 550 Senior Seminar in International Studies:
3 cr. Undergraduate/Graduate.
Interdisciplinary seminar with emphasis on functional/regional problems in world affairs.
Prerequisites: declared Intl Stds major or minor, or cons instr or prog coord.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
INTLST 699 Independent Study
1-6 cr. Undergraduate.
Advanced independent work under the supervision of an IntSt faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult prog coord or advisor.
Prerequisites: jr st; 2.5 GPA; writ cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

International Studies, BA

Students in UWM’s international studies program take courses in history, political science, economics, anthropology, comparative literature, and foreign languages to build a program around their own specialized interests in international relations, politics, economics or development. The International Studies (IS) major offers a number of special programs designed to help students deepen their knowledge of international affairs.

Understanding the nuances of globalization in our personal and professional lives, speaking the languages of others, and appreciating cultural diversity are essential skills for living and working in the world today. UWM’s program is based on the principles of the liberal arts with an emphasis in broad knowledge of people, places, and institutions and the skills to be an adaptable career-changing in a fast-moving marketplace. International studies majors have the ability to interact across cultures, converse in more than one language, analyze problems across cultural or national boundaries, adapt to new and foreign situations, appreciate differences in people and processes, and problem solve across different areas and formats.

With this background, students have job opportunities in many different industries and many different roles. Career choices immediately after college are often influenced by the hands-on experiences obtained during the college years. Students are encouraged to explore all of their options through internships, part-time jobs, and volunteer experiences.

Similarly, a study abroad (http://uwm.edu/cie/study-abroad) experience can open up new opportunities that would not have even been imagined prior to going abroad. UWM has programs at more than 70 sites around the world that vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Students often wonder what the differences are between Global Studies and International Studies. The foreign language requirements for the International Studies program are not as stringent as those in Global Studies, and study abroad is not required for International Studies as it is for Global Studies. In addition, International Studies coursework is focused exclusively on courses found in the College of Letters & Science.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Literacy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part A</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part B</td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UWM Foreign Language Requirement</td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>UWM Cultural Diversity Requirement</td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>College of Letters &amp; Science Requirements</td>
<td></td>
</tr>
</tbody>
</table>

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing
course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td>9</td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td>9</td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete in one of the following ways:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.
Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

** VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

** Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

International Studies Major Requirements

The major requires 14 college credits or the equivalent in one foreign language. Students must complete at least one college course to meet this requirement; high school work alone will not suffice. Students must attain a 2.500 GPA in all UWM credits attempted for the major. In addition, the College requires that students attain a 2.500 GPA in all major credits attempted, including any transfer work.

Students may receive credit toward the International Studies (IS) major for participation in study abroad programs or the United Nations Summer Seminar. Credit towards the major also may be obtained through a semester-long internship in an international business, a government office, or a private organization with an international focus, either in Milwaukee or abroad.

Students may declare the International Studies (IS) major once they have reached 15 credits. The advisor will assist each student in preparing a logical sequence of studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Introduction Requirements</td>
<td></td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td></td>
</tr>
<tr>
<td>HIST 176</td>
<td>East Asian Civilization Since 1600</td>
<td></td>
</tr>
<tr>
<td>HIST 180</td>
<td>Latin American Society and Culture</td>
<td></td>
</tr>
<tr>
<td>HIST 242</td>
<td>Women and Gender in Europe: 1750 to the Present</td>
<td></td>
</tr>
</tbody>
</table>

** Required

Students may declare the International Studies (IS) major once they have reached 15 credits. The advisor will assist each student in preparing a logical sequence of studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 106</td>
<td>Politics of the World’s Nations</td>
<td>3</td>
</tr>
<tr>
<td>or POL SCI 175</td>
<td>Introduction to International Relations</td>
<td></td>
</tr>
</tbody>
</table>

** Requirements for the Major

** General

INTLST 550 Senior Seminar in International Studies: (subtitle) (satisfies L&S research requirement) 3

Select one of the following: 3-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 560</td>
<td>Introduction to Research Methods in Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>HIST 294</td>
<td>Seminar on Historical Method: Research Techniques</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 203</td>
<td>Introduction to Political Science Research</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
<tr>
<td>WGS 411</td>
<td>Women’s and Gender Studies Research Methods:</td>
<td></td>
</tr>
</tbody>
</table>

Options

Select one of the following: 18

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option A: International Politics and World Affairs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option B: International Economics and Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option C: World Languages and Culture</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select 11-12 credits from the list of electives for a total of 36 credits 11-12

Total Credits 50-52

1 The introductory courses are required and should be taken during the first two years. Credits earned in the introductory courses do not count toward the 36 credits required for the major. They cannot be taken on a credit/no credit basis.

** Option A: International Politics and World Affairs

This option emphasizes political aspects of international studies. 18 credits are required as outlined below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>Introduction to International Economic Relations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The United States as a World Power in the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Problems of American Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select a minimum of three of the following:</td>
<td>9</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td></td>
</tr>
<tr>
<td>POL SCI 316</td>
<td>International Law</td>
<td></td>
</tr>
</tbody>
</table>
International Studies, BA

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 337</td>
<td>International Organization and the United Nations</td>
<td></td>
</tr>
<tr>
<td>POL SCI 338</td>
<td>Seminar in International Relations: (part of UN Summer Seminar)</td>
<td></td>
</tr>
<tr>
<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
<td></td>
</tr>
<tr>
<td>POL SCI 365</td>
<td>Theories and Methods in International Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 370</td>
<td>International Conflict</td>
<td></td>
</tr>
<tr>
<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

**Option B: International Economics and Development**

This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies. 18 credits are required as outlined below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 330</td>
<td>The Politics of International Economic Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a minimum of two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td></td>
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Total Credits 18

**Option C: World Languages and Culture**

This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives. 18 credits are required as outlined below:

Select four from the following list, selecting from four different disciplinary areas: 12

**Anthropology:**
- ANTHRO 355 | Globalization, Culture, and Environment                     |         |
- ANTHRO 431 | Cities and Culture                                          |         |
- ANTHRO/GLOBAL 442 | Humanitarianism in Global Perspective |         |
- ANTHRO/GLOBAL 447 | The Global Politics of Human Rights |         |
- ANTHRO 449 | The Human Economy                                          |         |
- ANTHRO 450 | Political Anthropology                                     |         |
- ANTHRO 543 | Cross-Cultural Study of Religion                           |         |

**Comparative Literature:**
- COMPLIT 231 | Literature and Religion:                                    |         |
- COMPLIT 232 | Literature and Politics:                                    |         |

Select at least two upper-division courses (numbered 300 or above) in a single foreign language 6

Total Credits 18

**Electives**

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<tr>
<td>HIST 290</td>
<td>Topics in Global History</td>
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<tr>
<td>HIST 341</td>
<td>Imperial Russia</td>
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<tr>
<td>HIST 343</td>
<td>Russia Since 1917</td>
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<td>Poland and Its Neighbors, 1945 to the Present</td>
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<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
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<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
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<td>Modern China</td>
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<td>HIST 378</td>
<td>Revolution in China</td>
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<td>HIST 386</td>
<td>Africa: The Age of Empires to 1880</td>
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<td>HIST 387</td>
<td>Africa: Imperialism and Independence Since 1880</td>
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<td>HIST 392</td>
<td>The History of Southern Africa</td>
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<td>History of Mexico</td>
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<tr>
<td>HIST 394</td>
<td>History of Japan to 1600</td>
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<td>HIST 395</td>
<td>History of Japan Since 1600</td>
<td>3</td>
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<tr>
<td>HIST 400</td>
<td>Topics in Latin American and Caribbean History</td>
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<td>HIST 401</td>
<td>Topics in Middle Eastern History:</td>
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<tr>
<td>HIST 402</td>
<td>Topics in Asian History:</td>
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<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
<td>3</td>
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<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind</td>
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<td>Introduction to International Careers</td>
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<td>INTLST 450</td>
<td>Internship in International Studies</td>
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<td>Independent Study</td>
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<td>ITALIAN 256</td>
<td>Introduction to Italian Food Studies: A Cultural History</td>
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<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
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<td>ITALIAN 321</td>
<td>Introduction to Italian Literature:</td>
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<td>ITALIAN 322</td>
<td>Introduction to Italian Literature and Film</td>
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<td>ITALIAN 457</td>
<td>Topics in Italian Literature and Culture in Translation:</td>
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<tr>
<td>JAPAN 110</td>
<td>Japanese Popular Culture</td>
<td>3</td>
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<td>JAPAN 200</td>
<td>Japanese Culture and Its Effect on Language</td>
<td>3</td>
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<td>JAPAN 321</td>
<td>Analyzing Hollywood-Japan Film Remakes</td>
<td>3</td>
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<tr>
<td>JAPAN 331</td>
<td>Reading Japanese Short Stories</td>
<td>3</td>
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<tr>
<td>JAPAN 441</td>
<td>Business Japanese I</td>
<td>3</td>
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<tr>
<td>JEWISH 328</td>
<td>The Arab-Israeli Conflict</td>
<td>3</td>
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<tr>
<td>JEWISH 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
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<tr>
<td>JEWISH 421</td>
<td>Introduction to Yiddish Literature:</td>
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<tr>
<td>LACS 101</td>
<td>Introduction to Latin American and Caribbean Studies</td>
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<td>LACUSL 300</td>
<td>Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies: (Latino, Latin American, and Caribbean Cities)</td>
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<td>NURS 110</td>
<td>Introduction to Global Health</td>
<td>3</td>
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<td>PEACE 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
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<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
<td>3</td>
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<tr>
<td>PHILOS 237</td>
<td>Technology, Values, and Society</td>
<td>3</td>
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<tr>
<td>POLISH 236</td>
<td>Polish Culture in its Historical Setting</td>
<td>3</td>
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<tr>
<td>POL SCI 300</td>
<td>Western European Politics</td>
<td>3</td>
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<tr>
<td>POL SCI 302</td>
<td>Politics of Eastern Europe</td>
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<td>POL SCI 310</td>
<td>Russian and Post-Soviet Politics</td>
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</tr>
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<td>POL SCI 316</td>
<td>International Law</td>
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<tr>
<td>POL SCI 320</td>
<td>Politics of Developing Countries</td>
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<tr>
<td>POL SCI 325</td>
<td>Latin American Politics</td>
<td>3</td>
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<tr>
<td>POL SCI 330</td>
<td>The Politics of International Economic Relations</td>
<td>3</td>
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<tr>
<td>POL SCI 333</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
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<tr>
<td>POL SCI 334</td>
<td>German Politics and the New Europe</td>
<td>3</td>
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<tr>
<td>POL SCI 335</td>
<td>Comparative Political Systems</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 337</td>
<td>International Organization and the United Nations</td>
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<td>POL SCI 338</td>
<td>Seminar in International Relations</td>
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<tr>
<td>POL SCI 339</td>
<td>European Integration</td>
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<tr>
<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
<td>3</td>
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<tr>
<td>POL SCI 343</td>
<td>Asian International Relations</td>
<td>3</td>
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<tr>
<td>POL SCI 359</td>
<td>Problems of American Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 365</td>
<td>Theories and Methods in International Politics</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 370</td>
<td>International Conflict</td>
<td>3</td>
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<tr>
<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 381</td>
<td>The Development of Western Political Thought</td>
<td>3</td>
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<tr>
<td>POL SCI 382</td>
<td>Modern Political Thought</td>
<td>3</td>
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<tr>
<td>POL SCI 423</td>
<td>Conduct of American Foreign Affairs</td>
<td>3</td>
</tr>
<tr>
<td>PORTUGS 225</td>
<td>Understanding Brazil:</td>
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<tr>
<td>PORTUGS 277</td>
<td>Portuguese Discussion Section</td>
<td>1-6</td>
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<tr>
<td>PORTUGS 299</td>
<td>Ad Hoc: (Understanding Portuguese-Speaking Africa)</td>
<td>1-6</td>
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<tr>
<td>PORTUGS 360</td>
<td>Luso-Brazilian Culture:</td>
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<tr>
<td>PORTUGS 380</td>
<td>Luso-Brazilian Literature in Translation:</td>
<td>3</td>
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<tr>
<td>PORTUGS 457</td>
<td>Seminar in Luso-Brazilian Literature</td>
<td>3</td>
</tr>
<tr>
<td>PORTUGS 499</td>
<td>Ad Hoc: (Understanding Portuguese-Speaking Africa)</td>
<td>3</td>
</tr>
<tr>
<td>RUSSIAN 245</td>
<td>Russian Life and Culture</td>
<td>3</td>
</tr>
<tr>
<td>RUSSIAN 350</td>
<td>Dostoevsky and Tolstoy in Translation:</td>
<td>3</td>
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<td>RUSSIAN 391</td>
<td>Russian Literature and Culture in Translation:</td>
<td>3</td>
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<tr>
<td>SOCIO 324</td>
<td>Comparative Race Relations</td>
<td>3</td>
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<tr>
<td>SOCIO 325</td>
<td>Social Change</td>
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<tr>
<td>SOCIO 331</td>
<td>Sociology of Health Care</td>
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<tr>
<td>SOCIO 333</td>
<td>Social Class in Industrial Society</td>
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<tr>
<td>SOCIO 377</td>
<td>Urbanism and Urbanization</td>
<td>3</td>
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<tr>
<td>SOCIO 450</td>
<td>Environmental Sociology</td>
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</tr>
<tr>
<td>SOCIO 495</td>
<td>Seminar in Sociology: (International Urban Sociology)</td>
<td>3</td>
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</table>
In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the Major**

Honors and high honors in the major are awarded at graduation to students who achieve the following:

**Honors:** at least a 3.0 overall GPA with a 3.5 GPA on all credits attempted in the major and a 3.50 GPA on all advanced credits attempted in the major;

**High Honors:** at least a 3.0 overall GPA with a 3.75 GPA on all credits attempted in the major and a 3.75 GPA on all advanced credits attempted in the major.

**Honors in the College of Letters and Science**

**Dean's Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact Professor Erica Bornstein, elbornst@uwm.edu.

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu.

http://uwm.edu/cie/academics/international-studies/
International Studies, Minor

Students in UWM’s international studies program take courses in history, political science, economics, anthropology, comparative literature, and foreign languages to build a program around their own specialized interests in international relations, politics, economics or development.

Understanding the nuances of globalization in our personal and professional lives, speaking the languages of others, and appreciating cultural diversity are essential skills for living and working in the world today. UWM’s program is based on the principles of the liberal arts with an emphasis in broad knowledge of people, places, and institutions and the skills to be an adaptable career-changing in a fast-moving marketplace. International studies majors have the ability to interact across cultures, converse in more than one language, analyze problems across cultural or national boundaries, adapt to new and foreign situations, appreciate differences in people and processes, and problem solve across different areas and formats.

With this background, students have job opportunities in many different industries and many different roles. Career choices immediately after college are often influenced by the hands-on experiences obtained during the college years. Students are encouraged to explore all of their options through internships, part-time jobs, and volunteer experiences.

Similarly, a study abroad (http://uw.edu/cie/study-abroad) experience can open up new opportunities that would not have been even imagined prior to going abroad. UWM has programs at more than 70 sites around the world that vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Students often wonder what the differences are between Global Studies and International Studies. The foreign language requirements for the International Studies program are not as stringent as those in Global Studies, and study abroad is not required for International Studies as it is for Global Studies. In addition, International Studies coursework is focused exclusively on courses found in the College of Letters & Science.

Requirements

The International Studies minor consists of a total of 18 credits, in which students must attain a GPA of 2.500 in all UWM credits attempted for the minor. In addition, the College requires that students attain a 2.500 GPA in all minor credits attempted, including transfer work. Students must complete in residence at UWM at least 9 credits of upper-division courses (numbered 300 and above) in the minor. Students may declare the minor after completing at least 15 credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (satisfies L&amp;S research requirement)</td>
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<tr>
<td>ANTHRO 560</td>
<td>Introduction to Research Methods in Anthropology</td>
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<tr>
<td>ANTHRO 561</td>
<td>Techniques and Problems in Ethnography</td>
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<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
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Select one of the following: 3-4 credits

Code | Title                                                      | Credits |
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<tr>
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<tbody>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
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<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
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<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
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<td>POL SCI 316</td>
<td>International Law</td>
<td>3</td>
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<td>POL SCI 337</td>
<td>International Organization and the United Nations</td>
<td>3</td>
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<tr>
<td>POL SCI 338</td>
<td>Seminar in International Relations: (part of UN Summer Seminar)</td>
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<tr>
<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
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<td>POL SCI 359</td>
<td>Problems of American Foreign Policy</td>
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<td>POL SCI 365</td>
<td>Theories and Methods in International Politics</td>
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<td>POL SCI 370</td>
<td>International Conflict</td>
<td>3</td>
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<tr>
<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
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Option A: International Politics and World Affairs

This option emphasizes political aspects of international studies.

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<tr>
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<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
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<td>BUS ADM 496</td>
<td>International Business</td>
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<td>ECON 301</td>
<td>Intermediate Microeconomics</td>
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<tr>
<td>ECON 302</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
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</table>

Option B: International Economics and Development

This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies.

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<thead>
<tr>
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<tbody>
<tr>
<td>INTLST 550</td>
<td>Economic Statistics</td>
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</table>

Select two courses from one of the options (A, B, or C) listed below: 6 credits

Option A: International Politics and World Affairs

Option B: International Economics and Development

Option C: World Languages and Culture

Electives

Select 6 credits from the approved list of electives 6 credits

Total Credits 18-19
ECON 454  International Trade  3
ECON 455  International Finance  3
POL SCI 316  International Law  3
POL SCI 330  The Politics of International Economic Relations  3
POL SCI 370  International Conflict  3
URBPLAN 315  Great Cities of the World: Their Growth and Guided Urbanization  3
URBPLAN 684  Planning Local Economic Development  3

**Option C: World Languages and Culture**

This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives.

<table>
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<tr>
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<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
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<tr>
<td>ANTHRO 431</td>
<td>Cities and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 442</td>
<td>Humanitarianism in Global Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 449</td>
<td>The Human Economy</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 450</td>
<td>Political Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
<td>3</td>
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<td>COMPLIT 231</td>
<td>Literature and Religion: Written in English:</td>
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<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics:</td>
<td>3</td>
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<tr>
<td>ENGLISH 278</td>
<td>Introduction to World Literatures in English:</td>
<td>3</td>
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<tr>
<td>ENGLISH 316</td>
<td>World Cinema:</td>
<td>3</td>
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<td>ENGLISH 522</td>
<td>Studies in World Literature Written in English:</td>
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<td>GLOBAL 321</td>
<td>The Global City in History</td>
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<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
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<tr>
<td>HIST 210</td>
<td>The Twentieth Century: A Global History</td>
<td>3</td>
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<td>HIST 290</td>
<td>Topics in Global History</td>
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<td>HIST 372</td>
<td>Topics in Global History</td>
<td>3</td>
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<td>ITALIAN 245</td>
<td>Italian Fictions:</td>
<td>3</td>
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<tr>
<td>ITALIAN 457</td>
<td>Topics in Italian Literature and Culture in Translation:</td>
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<tr>
<td>PORTUGS 380</td>
<td>Luso-Brazilian Literature in Translation:</td>
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<tr>
<td>PORTUGS 457</td>
<td>Seminar in Luso-Brazilian Literature</td>
<td>3</td>
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<td>RUSSIAN 350</td>
<td>Dostoevsky and Tolstoy in Translation: Major Works</td>
<td>3</td>
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<tr>
<td>RUSSIAN 391</td>
<td>Russian Literature and Culture in Translation:</td>
<td>3</td>
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<td>SPANISH 371</td>
<td>Introduction to Latino Literature in English:</td>
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<tr>
<td>SPANISH 373</td>
<td>Topics in Latino Literature in English:</td>
<td>3</td>
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<tr>
<td>SPANISH 380</td>
<td>Hispanic Literature in Translation:</td>
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**Electives**

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<tr>
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<tr>
<td>AFRICOL 232</td>
<td>Survey of African Societies and Cultures</td>
<td>3</td>
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<tr>
<td>AFRICOL 311</td>
<td>African Religious Thought and Social Organizations</td>
<td>3</td>
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<tr>
<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 325</td>
<td>Africa/China Relations</td>
<td>3</td>
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<tr>
<td>AFRICOL 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 334</td>
<td>Survey of Black American and Black Brazilian Societies</td>
<td>3</td>
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<tr>
<td>AFRICOL 344</td>
<td>Global Black Social Movements</td>
<td>3</td>
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<tr>
<td>AFRICOL 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
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<tr>
<td>ITALIAN 245</td>
<td>Italian Fictions:</td>
<td>3</td>
</tr>
<tr>
<td>ITALIAN 256</td>
<td>Introduction to Italian Food Studies: A Cultural History</td>
<td>3</td>
</tr>
</tbody>
</table>
Current Students contact Professor Erica Bornstein, elbornst@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/cie/academics/international-studies/
JOURNALISM, ADVERTISING, AND MEDIA STUDIES

The Department of Journalism, Advertising, and Media Studies offers a major or minor in journalism, advertising, and media studies that emphasizes the study of the social implications and responsibilities of the mass media, an understanding of the processes of communication, and a fundamental knowledge of media communication techniques and procedures. The program provides students with a broad background in the liberal arts and sciences, which are vital aspects of contemporary life and essential to those entering careers in media communication.

Cross-listed Courses

The following courses offered by the Department of English may be used to fulfill curricular requirements of the undergraduate major or minor in journalism, advertising, and media studies:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Rhetoric and Professional Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Related Course

The following course offered by the Department of English may be of interest to JAMS students but may not be used to fulfill curricular requirements of the JAMS major or minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Programs

- Journalism, Advertising, and Media Studies, BA (p. 1511)
- Journalism, Advertising, and Media Studies, Minor (p. 1515)
- Media Studies, MA (p. 1516)

Journalism, Advertising, and Media Studies Courses

JAMS 101 Introduction to Mass Media
3 cr. Undergraduate.
Overview of mass media from the printing press to the internet. Focus on media technologies, industries, content, and critical approaches.
Prerequisites: none.  
General Education Requirements: SS  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

JAMS 111 Gender and the Media
3 cr. Undergraduate.
How gender representations in popular media inform and construct our understandings of the world; gender in popular culture, including new media; critical analysis of representations.
Prerequisites: none.  
Course Rules: No cr for students w/cr in JAMS 460.  
General Education Requirements: HU  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

JAMS 112 Global Media
3 cr. Undergraduate.
How media function in other countries and cultures from a perspective informed by Western and non-Western conceptual, philosophical, and cultural frameworks.
Prerequisites: none.  
Course Rules: No cr for students w/cr in JAMS 620.  
Current Offerings: http://uwm.edu/schedule

JAMS 113 Internet Culture
3 cr. Undergraduate.
Social, cultural, and historical dimensions of the Internet.
Prerequisites: none.  
General Education Requirements: HU  
Current Offerings: http://uwm.edu/schedule

JAMS 114 Media and Popular Culture
3 cr. Undergraduate.
Critical perspectives on media and popular culture (including television, comic books, new media); how media and popular culture structure everyday life.
Prerequisites: none.  
Last Taught: Spring 2009.  
Current Offerings: http://uwm.edu/schedule

JAMS 115 Introduction to Media and Politics
3 cr. Undergraduate.
Preparation to be informed, critical consumers of political messages in wide range of mass media; applying research on political content and effects of mass media.
Prerequisites: none.  
Course Rules: No cr for students w/cr in JAMS 615.  
General Education Requirements: SS  
Last Taught: Fall 2008.  
Current Offerings: http://uwm.edu/schedule

JAMS 116 Journalism, Documentary, and Democracy
3 cr. Undergraduate.
The role of journalism and documentary in democracy examined through a variety of media products.
Prerequisites: none.  
Last Taught: Fall 2016, Summer 2015, Summer 2014, Fall 2012.  
Current Offerings: http://uwm.edu/schedule

JAMS 142 Television and Radio in American Society
3 cr. Undergraduate.
Current issues in broadcasting in the United States, including ratings, programming, audience research, and effects.
Prerequisites: none.  
Course Rules: Not open for cr to students who have cr in JAMS 250.  
General Education Requirements: SS  
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule
JAMS 192 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2007.
Current Offerings: http://uwm.edu/schedule

JAMS 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

JAMS 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 201 Media Writing
3 cr. Undergraduate.
Techniques and strategies for writing that can communicate effectively with media audiences; emphasizes innovation and creativity within the constraints of good grammar and style.
Prerequisites: satisfaction of OWC-A GER
General Education Requirements: OWCB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 204 News Writing and Technology
3 cr. Undergraduate.
Writing, storytelling, digital editing and production for journalism.
Prerequisites: declared JAMS major or minor.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 207 Introduction to Advertising and Public Relations
3 cr. Undergraduate.
A practical approach to developing, implementing, and evaluating advertising and public relations strategies.
Prerequisites: declared JAMS major or minor.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 210 Jewish and Ethnic Narratives and Identities in Media
3 cr. Undergraduate.
Jewish and ethnic media; comparative analysis of narrative and identity constructions in photography, television, film, and convergent media.
Prerequisites: none.
Course Rules: Jewish 210 & JAMS 210 are jointly offered; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

JAMS 212 Introduction to Corporate Communication
3 cr. Undergraduate.
The profession of corporate communication; focus on the variety of mass communication strategies in the field.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JAMS 214 Advertising in American Society
3 cr. Undergraduate.
A critical survey of advertising's development and current practices as well as its impact on knowledge, attitudes, and behaviors.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

JAMS 230 Copy Editing
3 cr. Undergraduate.
Training in print editing; introduction to basic layout principles.
Prerequisites: grade of B or better in JAMS 201(P).
Current Offerings: http://uwm.edu/schedule

JAMS 231 Publication Design
3 cr. Undergraduate.
Principles of print layout and design.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 232 Photojournalism
3 cr. Undergraduate.
The history of photography and the practice of photojournalism, including aesthetic, conceptual, and technical developments. Digital production and distribution.
Prerequisites: soph st.
Current Offerings: http://uwm.edu/schedule

JAMS 260 Contemporary Non-Fiction Media
3 cr. Undergraduate.
Overview of new and traditional forms of non-fiction media such as documentaries, web sites, and reality television.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule
JAMS 262 Principles of Media Studies
3 cr. Undergraduate.
Central issues and concerns in the field of media studies. Cultural study of media industries and production practices. Analysis of media texts and audiences.
Prerequisites: declared JAMS major or minor.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 280 Selected Topics in Mass Communication:
3 cr. Undergraduate.
Selected topics not addressed in regularly-approved courses.
Prerequisites: soph st; add'l prereqs, if any, announced in the Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 289 Internship in Journalism and Media Communication, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.5 gpa; cons supervising faculty member.
Course Rules: Students earn one academic credit per 40 hours of internship placement. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

JAMS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance into UROP, prior or conc reg in UROP seminar.
Last Taught: Spring 2011, Fall 2010, Fall 2009, Spring 2009.
Current Offerings: http://uwm.edu/schedule

JAMS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

JAMS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

JAMS 306 Feature and Magazine Article Writing:
3 cr. Undergraduate.
Using interviews, analysis and/or observation to produce feature and profile stories.
Prerequisites: jr st; declared JAMS major/minor or English major.
Course Rules: May not be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 307 Persuasive Media Writing and Production:
3 cr. Undergraduate.
Writing, design, and production of persuasive media elements through individual and group work and skills-based activities.
Prerequisites: declared JAMS major/minor; grade of C or better in JAMS 207(P).
Course Rules: May not be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 320 Integrated Reporting
3 cr. Undergraduate.
Multimedia reporting and writing in an integrated newsroom setting.
Prerequisites: declared JAMS major or minor; grade of C or better in JAMS 204(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 325 Audio Storytelling
3 cr. Undergraduate.
Analysis of audio storytelling techniques and impact; audio storytelling production.
Prerequisites: jr st.
Course Rules: Counts as repeat of JAMS 380 w/similar topic.
Current Offerings: http://uwm.edu/schedule

JAMS 332 Introduction to Digital Documentary
3 cr. Undergraduate.
How to film and edit quality documentary footage fit for client use, broadcast television, or film festival entry.
Prerequisites: declared JAMS major or minor; grade of C or better in JAMS 203(P), 204(P), 242(P) or 307(P).
Last Taught: Fall 2011, Spring 2011, Fall 2010, Spring 2009.
Current Offerings: http://uwm.edu/schedule

JAMS 336 Media Graphics
3 cr. Undergraduate.
Production and analysis of mass media graphics, photographs, and illustrations.
Prerequisites: jr st; JAMS major/minor or Digital Arts and Culture (DAC) status; grade of C or better in JAMS 113(P) or grade of C or better in ART 118(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 342 Television News Reporting
3 cr. Undergraduate.
Reporting, writing, and editing television news, including field camera operation and video editing.
Prerequisites: declared JAMS major or minor; grade of C or better in JAMS 204(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
JAMS 356 Media Literacy
3 cr. Undergraduate.
Application of general semantics and other critical thinking principles to reporting methodology and news judgment.
Prerequisites: jr st.
Last Taught: Fall 2017, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

JAMS 380 Special Topics in Journalism, Advertising, and Media Studies:
3 cr. Undergraduate.
Special topics not addressed in regularly-approved courses.
Prerequisites: jr st; any add'l prereqs announced in Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 399 On-Campus Internship
3 cr. Undergraduate.
Professional internship in journalism, public relations, advertising, or other media.
Prerequisites: jr st, declared JAMS major, & cons dept internship committee.
Course Rules: May be retaken to 6 cr max in combination with JAMS 600.
Current Offerings: http://uwm.edu/schedule

JAMS 407 Persuasive Media Strategies and Tactics
3 cr. Undergraduate.
Exploration and analysis of advertising media buying and planning, and PR media relations.
Prerequisites: jr st; grade of C or better in JAMS 207(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

JAMS 450 Race and Ethnicity in the Media
3 cr. Undergraduate.
How popular media representations of race inform understandings of past and contemporary society; race in popular culture, especially new media; critical analysis of media content and forms.
Prerequisites: jr st.
Course Rules: Counts as repeat of JMC 660 w/similar topic.
Current Offerings: http://uwm.edu/schedule

JAMS 460 History of Mass Media
3 cr. Undergraduate.
Evolution of mass media in the United States; how technological, cultural, political and economic changes have affected the media.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

JAMS 461 Media Ethics
3 cr. Undergraduate.
Practical application of ethical principles to controversies in print and broadcast journalism, advertising, public relations, and new technologies of mass communication.
Prerequisites: jr st.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

JAMS 481 Topics in Social Media:
3 cr. Undergraduate.
Topics examining social media’s use, influence and/or development.
Prerequisites: May be retaken w/chg in topic to 6 cr max. Prereq. jr st. Not open for cr to students w/ cr in JAMS 380 w/ similar topic.
Current Offerings: http://uwm.edu/schedule

JAMS 489 Internship in Journalism and Media Communication, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.5 gpa; cons supervising faculty member.
Course Rules: Students earn one academic credit per 40 hours of internship placement. A three-credit internship, therefore, requires the student to complete at least 120 hours. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 491 Honors Seminar:
3 cr. Undergraduate.
Selected topics.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Spring 2011, Fall 2007, Fall 1996.
Current Offerings: http://uwm.edu/schedule

JAMS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

JAMS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

JAMS 500 Advanced Integrated Reporting
3 cr. Undergraduate.
Long form multimedia story production.
Prerequisites: jr st; declared JAMS major or minor; grade of C or better in 320(P).
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
JAMS 502 Specialized Reporting:
3 cr. Undergraduate.
Overview of the problems and challenges of specialized reporting in an area such as social science, science, the humanities and the arts.
Prerequisites: jr st; declared JAMS major or minor; grade of C or better in JAMS 320(P).
Course Rules: May be retaken w/chg in topic to 9 cr max. Not open for cr to student w/cr in JAMS 602 w/similar topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 503 Environment and the Media
3 cr. Undergraduate.
Analysis of environmental reporting in a variety of media; confluence of science, health, business, and political influences in environmental coverage.
Prerequisites: jr st
Course Rules: Counts as a repeat of JAMS 660 with similar title.
Last Taught: Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

JAMS 504 Critical and Opinion Writing
3 cr. Undergraduate.
Training in editorial research and preparation of background and opinion articles.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

JAMS 505 Research for Advertising and Public Relations
3 cr. Undergraduate/Graduate.
Examination of the research process through hands-on projects; how to formulate research questions, design questionnaires, collect data, and report and interpret answers to these questions.
Prerequisites: jr st; grade of C or better in JAMS 207(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 524 Advertising and Public Relations Campaigns
3 cr. Undergraduate.
Advanced course in advertising and public relations; emphasis on applying integrated practices and principles.
Prerequisites: jr st; grade of C or better in JAMS 222(P), 224(P), or 307(P); declared JAMS major or minor.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 544 Advanced Television News Production
3 cr. Undergraduate.
Newscast production; advanced reporting, writing and storytelling techniques.
Prerequisites: jr st; declared JAMS major or minor; grade of C or better in JAMS 342(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JAMS 559 Freedom of Expression in the Digital Age
3 cr. Undergraduate/Graduate.
First Amendment, copyright, privacy, libel, and other legal issues in contemporary news, media, persuasive communication, and social communication.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

JAMS 562 Media Studies and Culture
3 cr. Undergraduate/Graduate.
Mass media and the production of culture; media industries, content, and audiences; focus on contemporary issues.
Prerequisites: jr st; grade of C or better in JAMS 262(P).
Current Offerings: http://uwm.edu/schedule

JAMS 600 Off-Campus Internship
3 cr. Undergraduate/Graduate.
Professional internship in journalism, public relations, advertising, or other media.
Prerequisites: jr st & declared JAMS major, or grad st; cons internship committee.
Course Rules: May be retaken to 6 cr max in combination with JAMS 399.
Current Offerings: http://uwm.edu/schedule

JAMS 614 Seminar in Media and Public Opinion
3 cr. Undergraduate/Graduate.
Preparation to be critical consumer of polls and media coverage of them; theories and findings regarding propaganda and media influence on public opinion.
Prerequisites: jr st.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

JAMS 615 Seminar in Media and Politics
3 cr. Undergraduate/Graduate.
How news media cover politics; role of traditional and new media in political campaigns; political content and effects of entertainment media and documentaries.
Prerequisites: jr st.
Last Taught: Spring 2016, Fall 2014, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

JAMS 620 Seminar in Global Media
3 cr. Undergraduate/Graduate.
Economic, regulatory, and cultural characteristics of national and global mass media.
Prerequisites: jr st.
Last Taught: Spring 2018, Fall 2017, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

JAMS 645 Seminar in Health and the Media
3 cr. Undergraduate/Graduate.
Theoretical frameworks for examination of media representations of health, illness, health care; impact of media consumption on health, illness; use of media in health promotion.
Prerequisites: jr st.
Course Rules: Counts as a repeat of JAMS 660 w/ health-related subtitle.
Current Offerings: http://uwm.edu/schedule
JAMS 659 Seminar in Comparative Media Law
3 cr. Undergraduate/Graduate.
Critical thinking and research about different countries' approaches to freedom of expression and legal issues relating to journalism, advertising, and other aspects of the media.
Prerequisites: jr st; JAMS 559 or cons instr.
Last Taught: Fall 2011, Fall 2007.
Current Offerings: http://uwm.edu/schedule

JAMS 660 Seminar in Contemporary Issues in Media Studies:
3 cr. Undergraduate/Graduate.
Research-oriented approaches to theoretical and social issues in mass communication.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 661 Seminar in Media Communication and Society:
3 cr. Undergraduate/Graduate.
Topics related to the mass media; the research process; development of a seminar paper based on original research.
Prerequisites: jr st; add!l prereqs, if any, announced in the Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 699 Advanced Independent Study
1-6 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: jr st, 2.5 gpa, & wrt cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 700 Approaches to Media Studies
3 cr. Graduate.
Review and analysis of research in media studies; preparation for scholarly writing.
Prerequisites: admis to MA prog in Media Studies or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JAMS 701 Media Studies Research Design
3 cr. Graduate.
Qualitative and quantitative research methods in media studies; preparation of a research proposal.
Prerequisites: admis to MA prog in Media Studies or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JAMS 810 Media Effects
3 cr. Graduate.
Cross-disciplinary examination of theoretical approaches, research methods, and findings in the study of mass media effects on beliefs, opinions, behavior, and policy; design and execution of a research project.
Prerequisites: grad st.
Last Taught: Fall 2014, Spring 2013, Fall 2011, Fall 2007.
Current Offerings: http://uwm.edu/schedule

JAMS 815 Media and Cultural Studies
3 cr. Graduate.
Cultural approaches to the study of media; design and execution of a research project.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

JAMS 820 Persuasion in Media
3 cr. Graduate.
Examination of theoretical approaches, research methods, and findings in the study of persuasive media; design and execution of a research project.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

JAMS 830 Topics in Media History:
3 cr. Graduate.
Historical approaches to the study of media; design and execution of a research project.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 835 Politics and the Media
3 cr. Graduate.
In-depth examination of the relationships between the media and politics in the United States, with a special focus on political campaigns.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

JAMS 840 Topics in Media Law and Ethics:
3 cr. Graduate.
In-depth study and discussion of law and ethics as they relate to the mass media; development of original research for publication in scholarly journals.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2015, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

JAMS 845 Topics in Gender, Sexuality, and Media:
3 cr. Graduate.
Analysis of gender, sexuality, and other aspects of identity in and related to media.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 850 Global Media and Local Cultures
3 cr. Graduate.
Seminar covering major theories and critiques of globalization, with a particular emphasis on the study of media and culture.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

JAMS 859 Seminar in Comparative Media Law
3 cr. Undergraduate/Graduate.
Critical thinking and research about different countries' approaches to freedom of expression and legal issues relating to journalism, advertising, and other aspects of the media.
Prerequisites: jr st; JAMS 559 or cons instr.
Last Taught: Fall 2011, Fall 2007.
Current Offerings: http://uwm.edu/schedule

JAMS 860 Seminar in Contemporary Issues in Media Studies:
3 cr. Undergraduate/Graduate.
Research-oriented approaches to theoretical and social issues in mass communication.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 861 Seminar in Media Communication and Society:
3 cr. Undergraduate/Graduate.
Topics related to the mass media; the research process; development of a seminar paper based on original research.
Prerequisites: jr st; add!l prereqs, if any, announced in the Schedule of Classes.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 869 Advanced Independent Study
1-6 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: jr st, 2.5 gpa, & wrt cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 700 Approaches to Media Studies
3 cr. Graduate.
Review and analysis of research in media studies; preparation for scholarly writing.
Prerequisites: admis to MA prog in Media Studies or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JAMS 701 Media Studies Research Design
3 cr. Graduate.
Qualitative and quantitative research methods in media studies; preparation of a research proposal.
Prerequisites: admis to MA prog in Media Studies or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JAMS 810 Media Effects
3 cr. Graduate.
Cross-disciplinary examination of theoretical approaches, research methods, and findings in the study of mass media effects on beliefs, opinions, behavior, and policy; design and execution of a research project.
Prerequisites: grad st.
Last Taught: Fall 2014, Spring 2013, Fall 2011, Fall 2007.
Current Offerings: http://uwm.edu/schedule

JAMS 815 Media and Cultural Studies
3 cr. Graduate.
Cultural approaches to the study of media; design and execution of a research project.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

JAMS 820 Persuasion in Media
3 cr. Graduate.
Examination of theoretical approaches, research methods, and findings in the study of persuasive media; design and execution of a research project.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

JAMS 830 Topics in Media History:
3 cr. Graduate.
Historical approaches to the study of media; design and execution of a research project.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

JAMS 835 Politics and the Media
3 cr. Graduate.
In-depth examination of the relationships between the media and politics in the United States, with a special focus on political campaigns.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

JAMS 840 Topics in Media Law and Ethics:
3 cr. Graduate.
In-depth study and discussion of law and ethics as they relate to the mass media; development of original research for publication in scholarly journals.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2015, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

JAMS 845 Topics in Gender, Sexuality, and Media:
3 cr. Graduate.
Analysis of gender, sexuality, and other aspects of identity in and related to media.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 850 Global Media and Local Cultures
3 cr. Graduate.
Seminar covering major theories and critiques of globalization, with a particular emphasis on the study of media and culture.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule
JAMS 855 Topics in New Media:
3 cr. Graduate.
History, theory, and/or criticism of new media.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2015, Spring 2014, Fall 2009.
Current Offerings: http://uwm.edu/schedule

JAMS 860 Seminar in Media Studies:
3 cr. Graduate.
In-depth study and discussion of a current topic in media studies.
Specific topics announced in the Schedule of Classes.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

JAMS 888 Candidate for Degree
0 cr. Graduate.
Available for grad students who must meet minimum cr load requirement.
Prerequisites: grad st.
Course Rules: Fee assessed for 1 cr.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 990 Research and Thesis
1-6 cr. Graduate.
Production of a thesis under the supervision of the student’s major professor with the consultation of the degree committee.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

JAMS 991 Professional Project
1-6 cr. Graduate.
Preparation and execution of a project which applies mass communication research and theory in a professional setting.
Prerequisites: grad st; cons instr.
Course Rules: Students enroll under major prof with consultation of degree committee.
Last Taught: Spring 2017, Fall 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

JAMS 999 Graduate Independent Study
1-3 cr. Graduate.
Supervised research of a particular topic area either not covered by other courses or at a level of sophistication beyond that of courses which cover the topic.
Prerequisites: grad st; 3.00 grad gpa; writ cons grad dir.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Allen</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jackie Bradway</td>
<td>Lecturer</td>
<td>MA</td>
<td>Webster University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xiaoxia Cao</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Pennsylvania</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jane Hampden Daley</td>
<td>Senior Lecturer</td>
<td>MSJ</td>
<td>Columbia University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elana Levine</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jessica McBride</td>
<td>Senior Lecturer</td>
<td>MA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Newman</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richard Popp</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Temple University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joette Rockow</td>
<td>Senior Lecturer</td>
<td>MA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeffery Smith</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marc Tasman</td>
<td>Senior Lecturer</td>
<td>MFA</td>
<td>The Ohio State University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lia Wolock</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Journalism, Advertising, and Media Studies, BA

The worlds of journalism, advertising, and public relations are changing at a rapid pace with the integration of social media, mobile apps, amateur photography and video, and instant feedback. UWM’s Department of Journalism, Advertising, and Media Studies (JAMS) is a great place to learn about the tools used today and to obtain the skills to adapt to the channels of tomorrow.

The Department of Journalism, Advertising, and Media Studies (JAMS) teaches students about the role of media in culture and society and offers hands-on experience in journalism and advertising/public relations.

The JAMS major blends liberal arts education in media studies with professional training for work in media fields.

JAMS undergraduate students choose one of three concentrations based on their interests and career aspirations: journalism, advertising/public relations, and media studies. Students have opportunities to learn from media scholars and industry professionals, and they produce media in their chosen areas of study.

Our students report news stories, run social media pages, produce short documentaries and podcasts, and research, plan, and conduct events for nonprofit organizations. JAMS students have several opportunities to learn outside the classroom through active clubs and organizations including a student chapter of the Public Relations Society of America, Ad Club, Journalism Club, The UWM Post, and the Minority Media
Association. Student work is showcased on a student-powered online news site, Media Milwaukee. Many JAMS students have internships which earn major credits.

JAMS majors excel in careers in writing, reporting, editing, marketing, advertising, broadcasting, public relations, social media management, journalism, and more.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Arts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**College of Letters & Science Requirements**

**I. English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.*

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
</tbody>
</table>
POL SCI 392 Survey Research
PSYCH 210 Psychological Statistics
SOCIOL 261 Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+)* designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts</td>
<td>Select 3 credits</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S Courses with Humanities Breadth designation; no more than 6 credits from a single subject area</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
</tbody>
</table>

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).
to the Journalism, Advertising, and Media Studies website: uwm.edu/journalism-advertising-media-studies/ for application procedures.

**JAMS Major Requirements**

Students must complete 18 or more credits in courses numbered 300 or above, and at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. Students may count a maximum of 6 credits in any combination of JAMS 399 and JAMS 600, each of which can be taken to a maximum of 6 credits. The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. Students must attain a 2.500 GPA on all major credits attempted, including transfer work.

A Journalism, Advertising, and Media Studies (JAMS) major requires a minimum of 36 credits in JAMS:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>Select 12 credits in a single major, department, or certificate program outside of JAMS ¹</td>
<td>12</td>
</tr>
<tr>
<td>JAMS 101</td>
<td>Introduction to Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 201</td>
<td>Media Writing</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 559</td>
<td>Freedom of Expression in the Digital Age</td>
<td>3</td>
</tr>
<tr>
<td>Concentration</td>
<td>Select at least one JAMS 600-level course with the word “Seminar” in its title to meet the L&amp;S requirement for a research experience in the major</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 659</td>
<td>Seminar in Media and Public Opinion</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 661</td>
<td>Seminar in Media and Politics</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 660</td>
<td>Seminar in Contemporary Issues in Media Studies:</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 661</td>
<td>Seminar in Media Communication and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 36

¹ At least 6 credits must be at the 300 level or above.

² Required for admission to the major.

**Concentration Requirements**

**Journalism**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAMS 204</td>
<td>News Writing and Technology</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 320</td>
<td>Integrated Reporting</td>
<td>3</td>
</tr>
<tr>
<td>Select at least two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>JAMS 342</td>
<td>Television News Reporting</td>
<td></td>
</tr>
<tr>
<td>JAMS 500</td>
<td>Advanced Integrated Reporting</td>
<td></td>
</tr>
<tr>
<td>JAMS 502</td>
<td>Specialized Reporting:</td>
<td></td>
</tr>
<tr>
<td>JAMS 544</td>
<td>Advanced Television News Production</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 12

**Media Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAMS 262</td>
<td>Principles of Media Studies</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 562</td>
<td>Media Studies and Culture</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>JAMS 204</td>
<td>News Writing and Technology</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 12

**Advertising/Public Relations**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAMS 207</td>
<td>Introduction to Advertising and Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 307</td>
<td>Persuasive Media Writing and Production:</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 407</td>
<td>Persuasive Media Strategies and Tactics</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 524</td>
<td>Advertising and Public Relations Campaigns</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 12

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of
Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the College of Letters and Science**

**Dean's Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact the Department directly, jams-info@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/journalism-advertising-media-studies/undergraduate/

**Journalism, Advertising, and Media Studies, Minor**

The worlds of journalism, advertising, and public relations are changing at a rapid pace with the integration of social media, mobile apps, amateur photography and video, and instant feedback. UWM’s Department of Journalism, Advertising, and Media Studies (JAMS) is a great place to learn about the tools used today and to obtain the skills to adapt to the channels of tomorrow.

The Department of Journalism, Advertising, and Media Studies (JAMS) teaches students about the role of media in culture and society and offers hands-on experience in journalism and advertising/public relations. The JAMS major blends liberal arts education in media studies with professional training for work in media fields.

JAMS majors choose one of three concentrations based on their interests and career aspirations: journalism, advertising/public relations, and media studies; minors take a more general array of coursework.

Our students report news stories, run social media pages, produce short documentaries and podcasts, and research, plan, and conduct events for nonprofit organizations. JAMS students have several opportunities to learn outside the classroom through active clubs and organizations including a student chapter of the Public Relations Society of America, Ad Club, Journalism Club, The UWM Post, and the Minority Media Association. Student work is showcased on a student-powered online news site, Media Milwaukee. Many JAMS students have internships which earn major credits.

JAMS majors excel in careers in writing, reporting, editing, marketing, advertising, broadcasting, public relations, social media management, journalism, and more.

**Requirements**

A minor in journalism, advertising, and media studies consists of a minimum of 18 credits in journalism, advertising, and media studies including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAMS 101</td>
<td>Introduction to Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 201</td>
<td>Media Writing</td>
<td>3</td>
</tr>
<tr>
<td>total</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

**Criteria and Procedures for Admission to the Minor**

Students will be eligible to declare the JAMS minor if they meet all of the following criteria:

1. They have completed JAMS 101 and JAMS 201 with at least a 2.500 GPA in the two courses.
2. They have an overall GPA of at least 2.500.
3. They have at least 24 credits on their transcript, excluding credits obtained through examinations (such as CLEP and AP credits) and retroactive foreign language credits. These 24 credits must include at least 12 credits taken in residence at UWM unless the applicant has completed a bachelor’s degree and is seeking an additional major or degree.

To declare the minor, students who meet the listed criteria should call (414) 229-4436 or email jams-email@uwm.edu. Students enrolled in JAMS 201 will be guided through the declaration process by faculty near the end of the semester. NOTE: JAMS does not declare new minors during the week before classes begin in fall or spring semester or during the first two weeks of those semesters.
Students who do not meet the declaration requirement listed above must go through the appeals process for admission to the JAMS major. Go to the Journalism, Advertising, and Media Studies website: uwm.edu/journalism-advertising-media-studies/ for application procedures.

**Additional Requirements**

- At least 9 credits must be at the 300 level or above taken in residence at UWM.
- The College requires that students attain at least a 2.500 GPA on credits in the major attempted at UWM.
- Students must attain a 2.500 GPA on all minor credits attempted, including transfer work.

**Contact Information**

Current Students contact the Department directly, jams-info@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/journalism-advertising-media-studies/undergraduate/

**Media Studies, MA**

Mediated communication brings information, persuasion, and entertainment to our neighborhoods, our nation, and our world. As the choices expand and the reach of the media becomes more global, media producers can be anyone from a major corporation to an individual activist with a Web site, and media consumers can interact with the products they encounter in a multitude of ways.

The M.A. in Media Studies offered through the Department of Journalism, Advertising, and Media Studies is wide ranging and interdisciplinary. The goal of the program is to foster knowledge and understanding of mass media and society through critical, cultural, historical, legal, ethical, or social scientific approaches. One particular emphasis of the program is the relationship between the media and the public interest.

The program is oriented toward academic study rather than instruction in technical skills. The curriculum focuses on research and critical thinking about the media. Students complete 24 credits of coursework and a 6-credit thesis. They work closely with their faculty advisors to design a course of study and to conduct original research for their theses.

Media studies graduate faculty members have national reputations for research in an array of specialties. Students in the master’s program also are active in research.

The program’s alumni apply what they have learned to a range of endeavors, including media-oriented careers and advanced academic work. An increasing number continue their education in Ph.D. programs.

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following departmental requirements to be considered for admission to the program:

1. Present an overall undergraduate grade point average of 3.00 or above.
2. Submit three letters of recommendation from persons capable of judging the applicant’s capacity for success in a graduate program of study.
3. Submit scores from the General Test section of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).
4. Submit a sample of original writing in English — a piece of academic or professional work, or a brief essay about a topic of the applicant’s choice.

International students, in addition to satisfying the Graduate School’s requirements for English language proficiency, must submit TOEFL or IELTS scores sufficiently high to meet program standards.

**Advisors**

The department’s graduate director initially advises students and helps them find a thesis advisor. Students consult with their advisors as they prepare their course plans and consider thesis topics. The thesis advisor guides the student in preparing a thesis proposal, provides advice on the thesis research, and chairs the thesis committee. In consultation with the graduate director, students may change thesis advisors.

**Courses and Credits**

Students must take 30 graduate credits, at least 24 of which must be in courses offered by the Department of Journalism, Advertising, and Media Studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAMS 700</td>
<td>Approaches to Media Studies</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 701</td>
<td>Media Studies Research Design</td>
<td>3</td>
</tr>
<tr>
<td>Select at least two 800-level seminars offered by the Department of Journalism, Advertising, and Media Studies</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>JAMS 990</td>
<td>Research and Thesis (minimum of 6 credits)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Electives**

Select 12 additional graduate credits

Total Credits

30

**Thesis**

All students write a thesis based on original research. The thesis advisor chairs the thesis committee, which also includes two other members. The committee chair and at least one of the other committee members must be from the Department of Journalism, Advertising, and Media Studies. Normally, all members of a thesis committee will be members of the UWM graduate faculty. With the approval of the thesis advisor and the departmental graduate program committee, a student’s thesis committee may include someone who is not a member of the UWM graduate faculty when such a person has at least a master’s degree and greater expertise in the subject area than do available members of the graduate faculty.

The thesis advisor guides the student in writing a formal thesis proposal, which must be approved by the thesis committee. After the thesis proposal has been approved, the student carries out the proposed research.

The thesis committee evaluates the written thesis and conducts an oral examination at which the student defends his or her research. A student
receives credit for the thesis only if all three members of the committee approve the thesis.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.
LANGUAGE, LITERATURE & TRANSLATION

MA in Language, Literature, and Translation (MALLT)

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Programs

- Language, Literature, and Translation, MA (p. 1539)
- Language, Literature, and Translation, MA/Business Administration, MBA (p. 1541)
- Language, Literature, and Translation, MA/Library and Information Science, MLIS (p. 1541)
- Language, Literature, and Translation, MA: Classics (p. 1524)
- Language, Literature, and Translation, MA: Comparative Literature (p. 1525)
- Language, Literature, and Translation, MA: Classical Greek (p. 1526)
- Language, Literature, and Translation, MA: French and Francophone Language, Literature, and Culture (p. 1528)
- Language, Literature, and Translation, MA: German Language, Literature, and Culture (p. 1529)
- Language, Literature, and Translation, MA: Interpreting (p. 1530)
- Language, Literature, and Translation, MA: Latin (p. 1532)
- Language, Literature, and Translation, MA: Linguistics (p. 1533)
- Language, Literature, and Translation, MA: Spanish and Hispanophone Language, Literature, and Culture (p. 1535)
- Language, Literature, and Translation, MA: Translation (p. 1536)
- Translation, Graduate Certificate (p. 1542)

Language, Literature & Translation Courses

MALLT 700 Language Teaching Methods
3 cr. Graduate.
Introduction to practical issues of language instruction for new teaching assistants and language teachers; explores some theoretical issues related to second- and foreign language learning.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MALLT 703 Seminar in Language and Communication:
3 cr. Graduate.
Survey of basic theories on the nature of language and of the modes of verbal communication, with emphasis on the socio-cultural aspects.
Prerequisites: grad st; proficiency in a language other than English
Current Offerings: http://uwm.edu/schedule

MALLT 704 Seminar in Cultural Studies:
3 cr. Graduate.
Investigation of cultural phenomena in their socio-historical contexts in their symbolization in folklore, literature, and art. Specific topics and any additional prereqs announced in the Schedule of Classes each time course is offered.
Prerequisites: grad st
Course Rules: CompLit 704 & MALLT 704 are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MALLT 706 Seminar in Foreign Language Methodology and Pedagogy
3 cr. Graduate.
Nature and direction of recent developments in foreign language methodology and instructional principles.
Prerequisites: grad st
Last Taught: Spring 2013, Spring 2010, Fall 2006, Fall 2005.
Current Offerings: http://uwm.edu/schedule

MALLT 707 Seminar in Methods of Literary Analysis:
3 cr. Graduate.
Two or more theoretical and methodological approaches to literature, with application to selected literary texts. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: grad st
Course Rules: CompLit 707 & MALLT 707(701) are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MALLT 708 Proseminar in Linguistics
3 cr. Graduate.
Presents a range of linguistic constructs, demonstrating through readings, problems, and exercises how these concepts can be used in the analysis of language.
Prerequisites: grad st.
Course Rules: Linguis 708(701) & MALLT 708 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
MALLT 709 Seminar in Literary and Cultural Translation
3 cr. Graduate.
Study and practice of literary translation in its cultural setting. Discussion of essays, analysis of published translations, translation practice, and collegial discussion of students' work.
Prerequisites: grad st.
Course Rules: MALLT 709 & Trnsltn 709 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

MALLT 712 Bibliographic and Research Methodology in Foreign Language and Literature
3 cr. Graduate.
Discussion of types of research in languages and literatures, bibliographic resources and sources of research support.
Prerequisites: grad st
Last Taught: Spring 2010, Fall 1999, Fall 1998, Fall 1996.
Current Offerings: http://uwm.edu/schedule

MALLT 721 The Old Testament in Literature and the Arts
3 cr. Graduate.
The impact of the Old Testament on literature and the arts; its influence on major subsequent religious classics and through them on music, philosophy, and the visual arts.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

MALLT 728 Literary Translation
3 cr. Graduate.
Seminar in literary translation focusing on various genres including prose, poetry, essays, and theater; publication and copyright matters.
Prerequisites: grad st; admission to Translation Program.
Current Offerings: http://uwm.edu/schedule

MALLT 740 Approaches to the Modern I
3 cr. Graduate.
Seminar on the major figures and intellectual forces that have shaped multiple approaches to the modern across the academy.
Prerequisites: grad st.
Course Rules: English 740, Hist 740, & MALLT 740 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Fall 2013, Fall 2011, Fall 1991.
Current Offerings: http://uwm.edu/schedule

MALLT 741 Approaches to the Modern II
3 cr. Graduate.
Seminar on major figures and intellectual forces that have shaped approaches to the modern across periods.
Prerequisites: grad st.
Course Rules: English 741, Hist 741 & MALLT 741 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2013, Fall 2010, Fall 2009, Spring 2009.
Current Offerings: http://uwm.edu/schedule

MALLT 781 Graduate Study Abroad: Language and Culture:
1-3 cr. Graduate.
Coursework in a foreign language or culture taken in a UWM exchange program at a foreign university; subject to review and evaluation of the MALLT program faculty.
Prerequisites: grad st; cons MALLT coord comm chair.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MALLT 782 Graduate Study Abroad: Pre-1900 Literature:
1-3 cr. Graduate.
Coursework in pre-1900 literature taken in a UWM exchange program at a foreign university; subject to review and evaluation of the MALLT program faculty.
Prerequisites: grad st; cons MALLT coord comm chair.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MALLT 783 Graduate Study Abroad: Post-1900 Literature:
1-3 cr. Graduate.
Coursework in post-1900 literature taken in a UWM exchange program at a foreign university; subject to review and evaluation of the MALLT program faculty.
Prerequisites: grad st; cons MALLT coord comm chair.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MALLT 790 Thesis
1-6 cr. Graduate.
Independent study and research on a master's thesis under supervision of the student's advisory committee.
Prerequisites: grad st; cons advisory committee.
Course Rules: Retakable to 6 cr max.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MALLT 791 Reading and Research - Greek or Latin
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Fall 2016, Spring 2014, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MALLT 792 Reading and Research - Comparative Literature
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Spring 2017, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

MALLT 793 Reading and Research - French or Italian
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2014.
Current Offerings: http://uwm.edu/schedule
MALLT 794 Reading and Research - German
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Fall 2017, Spring 2014, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

MALLT 795 Reading and Research - Hebrew or Arabic
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Fall 2010, Fall 2009, Summer 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

MALLT 796 Reading and Research - Language
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Spring 2015, Spring 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

MALLT 797 Reading and Research - Polish or Russian or Serbo-Croatian
1-3 cr. Graduate.
Reading and research under the direction of a member of the MALLT faculty.
Prerequisites: grad st.
Last Taught: Spring 2015, Spring 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

MALLT 799 Reading and Research
1-3 cr. Graduate.
Directed reading and research on a topic selected by the student in consultation with his/her advisory committee.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MALLT 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee assessed for 1 cr.
Current Offerings: http://uwm.edu/schedule

Translation and Interpreting Courses
TRNSLTN 201 Introduction to Translation and Interpreting Studies
3 cr. Undergraduate.
Linguistic and cultural aspects of globalization analyzed alongside emerging practices in various language service professions/specializations; prevailing modes of multilingual communication and cross-cultural interaction.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

TRNSLTN 400 Consecutive Interpreting
3 cr. Undergraduate.
Professional protocols and practices of different modalities of consecutive interpreting; exercises for improvement of split-attention, short-term memory and information organization; ethical principles of interpreting profession.
Prerequisites: jr st; sixth semester of a foreign language.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 409 Seminar in Literary and Cultural Translation
3 cr. Undergraduate.
Study and practice of literary translation in its cultural setting. Discussion of essays, analysis of published translations, translation practice, and collegial discussion of students' work.
Prerequisites: jr st; sixth-semester or equiv of a foreign language.
Last Taught: Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 410 Comparative Systems for Translation
3 cr. Undergraduate.
Comparative systems in society; how those systems relate to the field of translation; how to make informed translation choices based on subtle differences in systems.
Prerequisites: jr st; satisfaction of Oral and Written Communication Part A GER.
General Education Requirements: OWCB, HU
Current Offerings: http://uwm.edu/schedule

TRNSLTN 411 Ethics and Procedures in Interpreting
3 cr. Undergraduate.
Fundamentals of providing spoken language interpreting services in various settings.
Prerequisites: sixth sem of any lang or cons instr.
Last Taught: Fall 2016, Fall 2012.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 422 Simultaneous Interpreting
3 cr. Undergraduate.
The field and practice of simultaneous interpretation, covering the historical development, cognitive processes and how SIMS is used in other contexts.
Prerequisites: jr st; cons instr
Course Rules: Counts as repeat of Global 499 w/same topic.
Current Offerings: http://uwm.edu/schedule
**TRNSLTN 427 Project Management in Translation**  
3 cr. Undergraduate.  
Principles of project management and quality assurance in translation industry standards and techniques of effective project management for a variety of language service projects.  
**Prerequisites:** jr st.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 428 Editing for Translation**  
3 cr. Undergraduate.  
Translation industry standards and best practices for quality assurance. Students edit texts in English, applying style guides and implementing effective research techniques.  
**Prerequisites:** jr st; cons Trnsln Prog dir.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 465 Introduction to Translation: English to French**  
3 cr. Undergraduate/Graduate.  
Translation of texts from English into French. Comparative study of French and English syntax and comparative culture.  
**Prerequisites:** jr st; grade of B or better in French 325(P); French 427(P) or cons instr.  
**Course Rules:** French 465 & Trnsltn 465 are jointly offered; they count as repeats of one another. Counts as repeat of French 499 with Intro to English to French Translation topic.  
**Last Taught:** Fall 2008.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 530 Business and Professional Aspects of Translation**  
3 cr. Undergraduate/Graduate.  
Practical knowledge needed to succeed as free-lance or in-house translators; marketing, advertising, negotiating as well as legal and tax issues.  
**Prerequisites:** jr st; French 415(425)(P), or German 425(P), or Spanish 347(P) or 707(P), or Trnsln 415(P), 425(P), or 707(P).  
**Last Taught:** Fall 2017, Fall 2015, Fall 2013, Fall 2010.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 550 Advanced Modes of Interpreting**  
3 cr. Undergraduate.  
Practice of simultaneous & consecutive interpreting; sight translation; note-taking; technology in interpreting.  
**Prerequisites:** jr st; cons instr  
**Course Rules:** Counts as repeat of Global 499 w/same topic.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 599 Independent Reading**  
1-3 cr. Undergraduate.  
Advanced independent work under the supervision of a faculty or instructional academic staff member. Student must submit a study proposal. For further information, consult program coord.  
**Prerequisites:** jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**Last Taught:** Summer 2016.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 700 Consecutive Interpreting**  
3 cr. Graduate.  
Professional protocols and practices of different modalities of consecutive interpreting; exercises for improvement of split-attention, short-term memory and information organization; ethical principles of interpreting profession.  
**Prerequisites:** grad st; cons Trnsltn Prog dir.  
**Last Taught:** Fall 2017, Fall 2015, Fall 2013.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 702 Introduction to Translation: English to Spanish**  
3 cr. Graduate.  
Basic skills necessary for professional translation. Translation of texts from English into Spanish. Summarizing texts; sight translation.  
**Prerequisites:** grad st; admis to Trnsltn Prog.  
**Last Taught:** Fall 2017, Fall 2015, Fall 2013, Fall 2010.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 703 Introduction to Translation: Japanese to English**  
3 cr. Graduate.  
Basic skills for translating texts from Japanese to English; focus on articles and documents encountered in business, banking, legal, medical, and academic contexts.  
**Prerequisites:** grad st; admis to Trnsltn prog.  
**Last Taught:** Fall 2013.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 704 Introduction to Translation: Arabic to English**  
3 cr. Graduate.  
Translating texts from Arabic to English, including media articles, political texts, and literary and consumer-oriented texts. Identifying and developing translation strategies; proofreading and editing own work.  
**Prerequisites:** grad st; admis to Trnsltn Prog or cons instr.  
**Last Taught:** Fall 2017, Fall 2015, Fall 2013.  
**Current Offerings:** http://uwm.edu/schedule

**TRNSLTN 706 Introduction to Translation: French to English**  
3 cr. Graduate.  
Introduction to basic skills necessary to professional translation. Translation of texts form French into English. Summarizing texts. Sight translation.  
**Prerequisites:** grad st; admis to Trnsltn Prog or cons instr.  
**Course Rules:** French 706 (715) & Trnsltn 706 (715) are jointly offered; they count as repeats of one another. Counts as repeat of French/Trnsltn 415 (425) taken for grad cr.  
**Last Taught:** Fall 2016, Fall 2014, Fall 2012.  
**Current Offerings:** http://uwm.edu/schedule
TRNSLTN 707 Introduction to Translation: Spanish to English
3 cr. Graduate.
Basic skills necessary for professional translation. Translation of texts from Spanish into English. Summarizing texts; sight translation.
Prerequisites: grad st; Spanish 308(P) or equiv.
Course Rules: Counts as a repeat of Spanish 707. Not open for cr to students w/grad cr in Spanish 347.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 708 Introduction to Translation: German to English
3 cr. Graduate.
Advanced skills for German to English translation including texts encountered in 'real world;' document terminology; translation strategies and tools; researching parallel texts; translation history and methodology.
Prerequisites: grad st.
Course Rules: MALLT 709 & Trnsltn 709 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 709 Seminar in Literary and Cultural Translation
3 cr. Graduate.
Study and practice of literary translation in its cultural setting. Discussion of essays, analysis of published translations, translation practice, and collegial discussion of students' work.
Prerequisites: grad st.
Prerequisites: grad st; Spanish 707(P) or grad cr in Spanish 347(P), or writ cons Trnsltn coord.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 710 Comparative Systems for Translation
3 cr. Graduate.
Comparative systems in society; how those systems relate to field of translation; how to make informed translation choices based on subtle differences in systems.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 711 Ethics and Procedures in Interpreting
3 cr. Graduate.
Fundamentals of providing spoken language interpreting services in various settings.
Prerequisites: grad st; admis to Trnsltn Prog or cons instr.
Last Taught: Fall 2016, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 712 Seminar in Advanced Translation: English to Spanish
3 cr. Graduate.
Comparative study of Spanish and English syntax; advanced translation (English to Spanish) of texts from the humanities, social and political sciences, technical writing, advertising.
Prerequisites: grad st; admis to Trnsltn Prog.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 713 Seminar in Advanced Translation: Japanese to English
3 cr. Graduate.
Translation of ideas and conceptual knowledge in subject areas including economics, law, society, culture, and history.
Prerequisites: grad st; Trnsltn 703(P).
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 714 Advanced Translation: Arabic to English
3 cr. Graduate.
Translating a variety of texts from Arabic to English, including media articles, political texts, literary and consumer-oriented texts. Identifying and developing translation strategies.
Prerequisites: grad st; admis to Trnsltn Prog or cons instr.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 716 Seminar in Advanced Translation: French to English
3 cr. Graduate.
Translation from French into English; advanced grammar; techniques of documentation.
Prerequisites: grad st; French 415(425)(P) or cons instr.
Course Rules: French 716(515) & Trnsltn 716(515) are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 717 Seminar in Advanced Translation: Spanish to English
3 cr. Graduate.
Comparative study of Spanish and English syntax; advanced translation (Spanish to English) of texts from the humanities, social and political sciences, technical writing, advertising. Counts as repeat of Spanish 717.
Not open for cr to students w/grad cr in Spanish 447.
Prerequisites: grad st; Spanish 707(P) or grad cr in Spanish 347(P), or writ cons Trnsltn coord.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 718 Seminar in Advanced German Translation
3 cr. Graduate.
Refinement of translation skills; concentration on specific types of texts.
Prerequisites: grad st; grade of B or better in Trnsltn 708(P); admis to Trnsltn Prog or cons instr.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 719 Introduction to Translation: Russian to English
3 cr. Graduate.
Translation process as combination of linguistic, cultural, ethical, and logistic challenges; translation strategies for business, media, academic, legal, commercial, medical, technical, and popular culture documents.
Prerequisites:
Last Taught: Fall 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 720 Topics in Translation:
1-3 cr. Graduate.
Advanced and specialized translation skills courses targeting the translation industry.
Prerequisites: grad st; add'l prereq depending on topic
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2011.
Current Offerings: http://uwm.edu/schedule
TRNSLTN 722 Simultaneous Interpreting
3 cr. Graduate.
Reviewing traditional modes; working with technology-assisted interpretation; and skill building in sight translation, note-taking, summary and the emerging mode SimConsec.
Prerequisites: grad st; cons instr.
Course Rules: Counts as a repeat of Trnsltn 720 w/same topic.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 726 Computer-Assisted Translation
3 cr. Graduate.
Terminology and database management for translators. Students should know D2L, Microsoft Office Suite and Explorer, how to compress files, view invisibles, format, navigate file structures.
Prerequisites: grad st; approved grad level intro to trnsltn course or cons instr.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 727 Project Management in Translation
3 cr. Graduate.
Principles of project management and quality assurance in the global language services industry; standards and techniques of effective project management for a variety of language service projects.
Prerequisites: grad st; admis to Trnsltn Prog.
Course Rules: Counts as repeat of Trnsltn 720 w/same title.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 728 Editing for Translation
3 cr. Graduate.
Translation industry standards and best practices for quality assurance. Students edit texts in English, applying style guides and implementing effective research techniques.
Prerequisites: grad st; cons Trnsltn coord.
Course Rules: Counts as repeat of Trnsltn 720 w/same title.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 729 Seminar in Advanced Translation: Russian to English
3 cr. Graduate.
Translation of ideas and conceptual knowledge in subject areas including economics, law, society, culture, and history.
Prerequisites: grad st; Trnsltn 719 or cons instr
Last Taught: Spring 2017, Spring 2015.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 730 Internship in Translation
3 cr. Graduate.
Internship offering on-the-job experience to students in the graduate program in translation.
Prerequisites: Trnsltn (MAFLL) 726(P); approved grad-level adv trnsltn course.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 750 Advanced Modes of Interpreting
3 cr. Graduate.
Practice of simultaneous & consecutive interpreting; sight translation; note-taking; technology in interpreting.
Prerequisites: jr st; cons instr
Current Offerings: http://uwm.edu/schedule

TRNSLTN 790 Thesis
1-6 cr. Graduate.
Independent study and research on a master's thesis under supervision of the student's advisory committee.
Prerequisites: grad st; cons advisory committee
Course Rules: Retakeable up to 9 crs w/chg in topic.
Current Offerings: http://uwm.edu/schedule

TRNSLTN 820 Translation Theory
3 cr. Graduate.
The role of translation in development of languages, cultures, and societies; cultural and ideological forces shaping translations; contemporary theories of translation.
Prerequisites: grad st.
Course Rules: CompLit 820 & Trnsltn 820 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viktorija Bilić</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Heidelberg University, Germany</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Lorena Terando</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>State University of New York at Binghamton</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Leah Leone</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Kathryn Scholz</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Amy Olen</td>
<td>Lecturer</td>
<td>PhD</td>
<td>University of Texas, Austin</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
Language, Literature, and Translation, MA: Classics

Related Certificates

- Graduate Certificate in Translation (http://uwm.edu/graduateschool/translation-certificate)

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - Language concentrations: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - Translation tracks: competence on a qualifying examination.
   - Comparative Literature concentration: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - Linguistics concentration: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
   - Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.
   - Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

   Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

   Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student’s transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Classics Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 18 credits of graduate-level coursework consisting of an equal number of credits in classical Greek and in Latin</td>
<td>18</td>
</tr>
</tbody>
</table>
Students may complete one of the following concentrations:

- Language, Literature, and Translation, MA: Comparative Literature
- Language concentrations: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
- Translation tracks: competence on a qualifying examination.
- Comparative Literature concentration: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
- Linguistics concentration: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

Compared to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies; Italian Studies; Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

### Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - Language concentrations: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - Translation tracks: competence on a qualifying examination.
   - Comparative Literature concentration: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - Linguistics concentration: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.
Credits and Courses
No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:
- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

Standard Track
Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

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<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

Comparative Literature Requirements
The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in Comparative Literature</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>30</td>
</tr>
</tbody>
</table>

Program Requirements
Transfer of Credits
Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

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

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

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

Language, Literature, and Translation, MA: Classical Greek

Related Certificates
- Graduate Certificate in Translation (http://uwm.edu/graduateschool/translation-certificate)

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture; and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

Application Deadlines
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Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
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   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

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Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
</tbody>
</table>

**Total Credits** 30

### Classical Greek Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in Greek</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Credits** 30

### Program Requirements

**Transfer of Credits**

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**Major Professor as Advisor**

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The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

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   - **Translation tracks**: competence on a qualifying examination.
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   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

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The MALLT degree offers two tracks:

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Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

**Standard Track**

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

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<tbody>
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<tr>
<td></td>
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<td>24</td>
</tr>
</tbody>
</table>

**Total Credits**

|       | 30 |

**French and Francophone Language, Literature, and Culture Requirements**

The following are the minimum course requirements for a concentration within the Standard Track:
**Program Requirements**

**Transfer of Credits**
Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

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

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The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

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

**Language, Literature, and Translation, MA: German Language, Literature, and Culture**

**Related Certificates**
- Graduate Certificate in Translation (http://uwm.edu/graduateschool/translation-certificate)

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program that focuses on global languages, literatures, and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian, and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes
substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

**Credits and Courses**

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

**Standard Track**

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

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<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
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</table>

Total Credits 30

**German Language, Literature, and Culture Requirements**

The following are the minimum course requirements for a concentration within the Standard Track:

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<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in German</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Credits 30

**Program Requirements**

**Transfer of Credits**

Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

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The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

**Time Limit**

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

**Language, Literature, and Translation, MA: Interpreting**

The Interpreting Track is designed for those considering careers as professional language interpreters.

**Related Certificates**

- Graduate Certificate in Translation (http://uwm.edu/graduateschool/translation-certificate)

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program (mallt-program@uwm.edu) for more information.

Being bilingual is not enough to be a successful translator. Professional translators must be experts in both source and target cultures, skilled readers of the source language and superb writers of the target language.
In addition, they need expertise in an area of specialization and a solid grasp of the language-services industry.

Our Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest
- pursue doctoral studies
- develop your professional skills without pursuing a degree

For information, please go here: [http://uwm.edu/translation-interpreting-studies/contact/request-for-information/](http://uwm.edu/translation-interpreting-studies/contact/request-for-information/)

### Application Deadlines

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### Admission

An applicant must meet Graduate School requirements ([http://uwm.edu/graduateschool/admission](http://uwm.edu/graduateschool/admission)) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
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2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

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### Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

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Students are not obliged to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td>3</td>
</tr>
<tr>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
<td></td>
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<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
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<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

### Interpreting Requirements

Students must earn thirty graduate credits, as indicated below. Admission is based in part on a qualifying examination.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 700</td>
<td>Consecutive Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 711</td>
<td>Ethics and Procedures in Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 722</td>
<td>Simultaneous Interpreting (under development)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation</td>
<td>3</td>
</tr>
</tbody>
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</table>
TRNSLTN 750 Advanced Modes of Interpreting (under development) 3

Electives
Select 6 credits which may include the following: 6
TRNSLTN 530 Business and Professional Aspects of Translation
TRNSLTN 727 Project Management in Translation
TRNSLTN 728 Editing for Translation
Introduction to Translation
Advanced Seminar in Translation

Total Credits 30

1 In French, German, Spanish, Russian, Arabic and Italian to English, or English to Spanish

Program Requirements

Transfer of Credits
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The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

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

Language, Literature, and Translation, MA: Latin

Related Certificates

- Graduate Certificate in Translation (http://uwm.edu/graduateschool/translation-certificate)

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

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Application Deadlines
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Admission
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2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic
within the Standard Track:

The following are the minimum course requirements for a concentration

Latin Requirements

including the following:

a program of study in consultation with the Major Professor, normally

in the language, literature, and linguistics areas. The student develops

Thirty graduate credits are required, 6 of which must be in core seminars

concentrations, but, in doing so, students must complete all requirements

it beneficial to do so. They also have the option of completing two

deficiencies do not count toward the degree. If an applicant furnishes

substantial evidence of capacity to do satisfactory graduate work despite

a deficiency in GPA on admission, probationary admission may be

recommended.

Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the

MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight
- concentrations and
- the Translation Track, which will be designated as a concentration on
- the student's transcript.

Students are not obligated to elect a concentration, but many will find

it beneficial to do so. They also have the option of completing two

concentrations, but, in doing so, students must complete all requirements

for each concentration and a minimum of 36 credits for the degree.

Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars

in the language, literature, and linguistics areas. The student develops

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including the following:

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Latin Requirements

The following are the minimum course requirements for a concentration

within the Standard Track:

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<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in Latin</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
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<td>30</td>
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</table>

Program Requirements

Transfer of Credits

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Time Limit

The student must complete all degree requirements within five years of

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Language, Literature, and Translation, MA: Linguistics

Related Certificates

- Graduate Certificate in Translation (http://uwm.edu/graduateschool/translation-certificate)

The MA in Language, Literature, and Translation (MALLT) is an

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Credits and Courses
No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

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**Standard Track**
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</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
</tbody>
</table>

**Total Credits** 30

**Linguistics Requirements**
The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Selected two of the following:</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>LINGUIS 708 Proseminar in Linguistics (Previously LINGUIS 701)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MALLT 706 Seminar in Foreign Language Methodology and Pedagogy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CURRINS 800 Master’s Seminar in Curriculum and Instruction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHILOS 681 Seminar in Advanced Topics: (subtitle)</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LINGUIS 460 Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>LINGUIS 464 Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select three additional courses in Linguistics</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select three additional linguistics courses in or outside the Department of Linguistics</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 9 credits in consultation with the student’s advisor</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Credits** 30

1 May include up to 6 credits in MALLT 790.

**Program Requirements**

Transfer of Credits
Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School
regulations allow the transfer of only 12 non-degree graduate credits to a
master’s program, students are advised to apply for degree candidacy in
the MALLT program before completion of 12 credits of coursework.

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

The Coordinating Committee refers each incoming student to a
temporary advisor, normally the Graduate Advisor in the student’s chosen
concentration, as stated in the application. The Graduate Advisor assists
in assessing the student’s competencies, interests, and future academic
or professional needs. Normally, the Graduate Advisor recommends a
Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end
of the student’s first semester of graduate work. The plan will be reviewed
by the Major Professor and the student after the successful completion
of 12 credits and the removal of any deficiencies that may have been
assessed at admission. At the time of the review, the student may request
another Major Professor in the event that his/her programmatic needs
have been modified or altered. Subsequent minor changes must be
approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after
completion of every six (6) credits or every semester of subsequent work.
The student may not register for any courses without this advisor’s prior
approval.

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

**Language, Literature, and Translation, MA: Spanish and
Hispanophone Language, Literature, and Culture**

**Related Certificates**
- Graduate Certificate in Translation (http://uwm.edu/graduateschool/
  translation-certificate)

The MA in Language, Literature, and Translation (MALLT) is an
interdisciplinary MA degree program focused on global languages,
literatures and translation. With over 50 faculty from five different
departments, MALLT offers a flexible program of study tailored to your
professional goals. Three departments—French, Italian and Comparative
Literature, Foreign Languages and Literature and Translation &
Interpreting Studies cooperate in offering this interdepartmental,
interdisciplinary master’s program designed for the student who wishes
to focus on language, literature, and translation on a cross-cultural
basis. Students may complete one of the following concentrations:
Comparative Literature; French and Francophone Language, Literature,
and Culture; German Language, Literature, and Culture and Translation
(Professional Track or Research Track). In addition to these specific
concentrations, students may pursue coursework in Classical Greek;
Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages.
MALLT also allows students interested in Linguistics or Spanish to
complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT
(Translation) coordinated degrees.

Inquiries concerning this program should be directed to the Coordinator
of the Language, Literature, and Translation program. Email the MALLT
program (mallt-program@uwm.edu) for more information.

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://
uw.edu/graduateschool/program-deadlines), call the Registrar’s Office
at (414) 229-3800 or submit a contact form (http://uw.edu/Registrar/
contact-us) online.

**Admission**
An applicant must meet Graduate School requirements (http://uw.edu/
graduateschool/admission) plus these program requirements to be
considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies
for specific concentrations are as follows:
   - **Language concentrations**: an undergraduate major in the
     language, or comparable background, such as coursework, a
     significant immersion experience, or native fluency combined
     with appropriate academic training.
   - **Translation tracks**: competence on a qualifying examination.
   - **Comparative Literature concentration**: an undergraduate
     major in comparative literature, including advanced study of a
     language other than English, or equivalent literary and language
     preparation.
   - **Linguistics concentration**: an undergraduate major in linguistics
     or in a related field, such as English, a foreign language,
     psychology, philosophy, or anthropology; and at least a basic-level
     familiarity with a language other than English, as evidenced by
     coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of
   recommendation, at least two of which should be from instructors
   acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement
   of approximately 500 words outlining the applicant’s academic
   background and interests, reasons for graduate study in the MALLT
   program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an
undergraduate grade point average of at least 2.75) and the above
program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant
lacking in course background may be admitted with specified deficiencies
in the above on the condition that the deficiencies be made up by the
end of the first full semester (9-12 credits). Credits earned in making up
deficiencies do not count toward the degree. If an applicant furnishes
substantial evidence of capacity to do satisfactory graduate work despite
a deficiency in GPA on admission, probationary admission may be
recommended.

**Credits and Courses**
No credits carrying a grade below B- may be counted toward meeting the
MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:
• the Standard Track within which students may complete one of eight concentrations and
• the Translation Track, which will be designated as a concentration on the student’s transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

**Standard Track**

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td>6</td>
</tr>
<tr>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Total Credits | 30 |

**Spanish and Hispanophone Language, Literature, and Culture Requirements**

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Select at least 15 graduate credits in Spanish</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Select three courses in related areas to give the program breadth</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Total Credits | 30 |

**Program Requirements**

**Transfer of Credits**

Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

**Major Professor as Advisor**

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The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

**Time Limit**

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

**Language, Literature, and Translation, MA: Translation**

**Related Certificates**

• Graduate Certificate in Translation ([http://uwm.edu/graduateschool/translation-certificate](http://uwm.edu/graduateschool/translation-certificate))

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdisciplinary, interdisciplinary master’s program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

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Being bilingual is not enough to be a successful translator. Professional translators must be experts in both source and target cultures, skilled readers of the source language and superb writers of the target language. In addition, they need expertise in an area of specialization and a solid grasp of the language-services industry.

Our Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:
be an in-house translator
be a freelancer
be a translation company owner
specialize in your area of interest
pursue doctoral studies
develop your professional skills without pursuing a degree

For information, please go here: http://uwm.edu/translation-interpreting-studies/contact/request-for-information/ (http://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-translation-MA/%20http://uwm.edu/translation-interpreting-studies/contact/request-for-information)

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Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
   - Language concentrations: an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
   - Translation tracks: competence on a qualifying examination.
   - Comparative Literature concentration: an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
   - Linguistics concentration: an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.

2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student’s academic work.

3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant’s academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

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Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses
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Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MALL/TRANSLTN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td>6</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation 1</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT/TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Language-Specific Concentrations
Select one of the following: 6

**French to English**
- FRENCH 415 | Introduction to Translation: French to English

**German to English**
- GERM 425 | Introduction to German Translation
- FRENCH/TRNSLTN 716 | Seminar in Advanced Translation: French to English
GERMAN 525  Seminar in Advanced German Translation

Spanish to English
SPANISH/TRNSLTN 707  Introduction to Translation: Spanish to English
SPANISH/TRNSLTN 717  Seminar in Advanced Translation: Spanish to English

English to Spanish
SPANISH 348  Introduction to Translation: English to Spanish

Electives
Select three electives (see below)  9

Total Credits  30

1 Or, for German concentrators, GERMAN 672.

Work in other languages may be possible with the approval of the coordinator, depending upon the availability of appropriate faculty members for language-specific independent study.

Electives
Select three courses from the following. Additional appropriate courses may be selected with the consent of the program coordinator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MALLT/Translation Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINGUIS/MALLT 708</td>
<td>Proseminar in Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>MALLT 790</td>
<td>Thesis (up to 6 credits )</td>
<td>1-6</td>
</tr>
<tr>
<td>TRNSLTN 530</td>
<td>Business and Professional Aspects of Translation (Previously FLL 525)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 720</td>
<td>Topics in Translation: (Subtitle)</td>
<td>1-3</td>
</tr>
<tr>
<td>A course in the student's area of translation specialization</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Translation course(s) in another language</td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>Other Approved Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 434</td>
<td>Editing and Publishing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Information Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 709</td>
<td>Rhetoric, Writing, and Information Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Translation Track: Research
The Research track is designed for those considering further study at the doctoral level.

Students must earn thirty graduate credits, as indicated below; they may not count undergraduate credits earned in the Translation Certificate Program. Admission is based in part on a qualifying examination that consists of a 300-word translation from the source to the target language and one 150-word essay in the target language.

Select one of the following:  6

French to English
FRENCH 415  Introduction to Translation: French to English
MALLT/TRNSLTN 709  Seminar in Literary and Cultural Translation

German to English
GERMAN 425  Introduction to German Translation
MALLT/TRNSLTN 709  Seminar in Literary and Cultural Translation

Spanish to English
SPANISH/TRNSLTN 707  Introduction to Translation: Spanish to English
MALLT/TRNSLTN 709  Seminar in Literary and Cultural Translation

English to Spanish
SPANISH 348  Introduction to Translation: English to Spanish
MALLT/TRNSLTN 709  Seminar in Literary and Cultural Translation

Electives
Select three electives (see below)  9

Total Credits  30

1 Offered by MALLT, Trnsltn or another department, with approval of student’s major professor.

Work in other languages may be possible with the approval of the coordinator, depending upon the availability of appropriate faculty members for language-specific independent study.

Electives
Select three courses from the following, in consultation with student’s major professor according to the student’s area of interest. Additional appropriate courses may be selected with the consent of the program coordinator or major professor. The list below is not exhaustive.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A course in Reading Literature in Translation: Case Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A literature course in the student’s source language area</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A translation course(s) in the student’s C language</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A course in translation or other critical theory (including courses offered by other departments and in languages other than English)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

Thesis
Up to 6 graduate credits may be earned by presentation of a satisfactory thesis. The student’s Major Professor, in consultation with the student, will recommend the names of a Thesis Director and two readers who, upon approval by the Coordinating Committee, will constitute the ad hoc Thesis Committee.

Comprehensive Examination
The student must pass both written and oral examinations, prepared and administered by an Examining Committee. The composition of the committee is approved by the Coordinating Committee. If the student
fails the examination, s/he may repeat it once, but no sooner than three months from the date of the first examination.

Comparative Literature students must demonstrate a reading knowledge of a second language other than English prior to taking their Comprehensive Examinations. Reading knowledge may be demonstrated by coursework in the specific language program or by written examination, to be determined with the Major Professor.

Program Requirements
Transfer of Credits
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- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest
- pursue doctoral studies
- develop your professional skills without pursuing a degree

For information, please go here: http://uwm.edu/translation-interpreting-studies/contact/request-for-information/

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Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program in consultation with the Major Professor, normally including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student’s major area of interest. Select the remaining credits in related areas to give the program breadth.</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Credits 30

The following are the minimum course requirements for a concentration within the Standard Track:

- Classical Greek (p. 1526): at least 15 graduate credits in Greek.
- Classics (p. 1524): at least 18 credits of graduate-level coursework consisting of an equal number of credits in classical Greek and in Latin.
- Comparative Literature (p. 1525): at least 15 graduate credits in Comparative Literature.
- French and Francophone Language, Literature, and Culture (p. 1528): at least 15 graduate credits in French.
- German Language, Literature, and Culture (p. 1529): at least 15 graduate credits in German.
- Interpreting (p. 1530): at least 30 graduate credits in Translation.
- Latin (p. 1532): at least 15 graduate credits in Latin.
- Linguistics (p. 1533): 6 credits in the two core seminars; at least 15 credits in Linguistics, and other courses chosen with the student’s advisor.
- Spanish and Hispanophone Language, Literature, and Culture (p. 1535): at least 15 graduate credits in Spanish.

Program Requirements

Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

Major Professor as Advisor

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

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

Time Limit

The student must complete all degree requirements within five years of initial enrollment.
Language, Literature, and Translation, MA/Business Administration, MBA

The College of Letters and Science and Lubar School of Business collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving language services industry theory and practices, and to provide high level management and administrative skills needed to work in business, industry, governmental, and nonprofit organizations.

Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Master of Arts in Language, Literature, and Translation (MALLT), Translation Professional Track in the College of Letters and Science, and the MBA program of the Lubar School of Business.

Credit and Courses

The total credits for the Coordinated MALLT/MBA program is 54. Students accepted into the MALLT/MBA program complete the following courses:

<table>
<thead>
<tr>
<th>Translation and Interpreting Studies</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 70x</td>
<td>Introduction to Translation Workshop</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 71x</td>
<td>Advanced Translation Workshop (language-specific)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation (language-specific)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TRNSLTN 730</td>
<td>Internship in Translation or BUSMGMT 729</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Comprehensive Exam</td>
<td>MBA Internship</td>
<td></td>
</tr>
</tbody>
</table>

| Electives                             | Select 9 shared credits in consultation with faculty advisors from among all approved TRNSLTN or MBA elective courses | 9       |

| Total Credits                         | 30       |

<table>
<thead>
<tr>
<th>Master of Business Administration</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BUSMGMT 704</td>
<td>Accounting Analysis and Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUSMGMT 705</td>
<td>Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programs</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 708</td>
<td>Marketing Strategy: Concepts and Practice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 711</td>
<td>Global Supply Chain Strategies &amp; Competitive Operations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 712</td>
<td>Strategic Management (capstone)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Electives | Select 9 shared credits in consultation with faculty advisors from among all approved TRNSLTN or MBA elective courses | 9       |

| Total MBA credits: 24 + 9 shared |

Program Requirements

The 54 credits for the coordinated program typically would be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program to receive a degree.

Time Limit
Students in the coordinated MALLT/MBA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Language, Literature, and Translation, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MA Language, Literature, and Translation

Available to students interested in Linguistics or Spanish, the joint MLIS/MALLT program prepares students for specialized positions in libraries.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office.
Admission
An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

Requirements
Students interested in the MALLT/MLIS program will be expected to follow all of the requirements and standards as described in this section of the Bulletin. Nine of the 30 credits normally required for a MALLT degree will be satisfied by courses taken in SOIS. In the coordinated degree program, MALLT thesis option credits will be in addition to the 21 required MALLT credits. Courses in related areas must be approved by the Coordinator of MALLT.

• See the MALLT (p. 1539) and MLIS (p. 951) pages for more information.

Credits and Courses

Basic Required MLIS Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
<td>12</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td></td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td></td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td></td>
</tr>
<tr>
<td>Other MLIS courses</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

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

Note: The full requirements for MALLT concentrations appear below. Some electives are waived for the MLIS/MALLT program.

Linguistics Requirements
The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 708</td>
<td>Proseminar in Linguistics (Previously LINGUIS 701)</td>
<td>6</td>
</tr>
<tr>
<td>MALLT 706</td>
<td>Seminar in Foreign Language Methodology and Pedagogy</td>
<td></td>
</tr>
<tr>
<td>CURRINS 800</td>
<td>Master’s Seminar in Curriculum and Instruction</td>
<td></td>
</tr>
<tr>
<td>PHILOS 681</td>
<td>Seminar in Advanced Topics: (subtitle)</td>
<td></td>
</tr>
</tbody>
</table>

Additional Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 460</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>Select three additional courses in Linguistics</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Select three additional linguistics courses in or outside the Department of Linguistics

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 9 credits in consultation with the student's advisor</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 May include up to 6 credits in MALLT 790.

Spanish and Hispanophone Language, Literature, and Culture Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select at least 15 graduate credits in Spanish</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Select three courses in related areas to give the program breadth</td>
<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Translation, Graduate Certificate

The Graduate Certificate in Translation offers online-only professional training to students in French, German, Spanish, Arabic, Russian, and often other languages, who wish to pursue careers in the language-services industry broadly speaking, or in other fields requiring advanced professional use of a language other than English.

Being bilingual is not enough to be a successful translator. Professional translators must be experts in both source and target cultures, skilled readers of the source language and superb writers of the target language. In addition, they need expertise in an area of specialization and a solid grasp of the language-services industry.

Our Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

• be an in-house translator
• be a freelancer
• be a translation company owner
• specialize in your area of interest
• pursue doctoral studies
• develop your professional skills without pursuing a degree

For information, please go here: http://uwm.edu/translation-interpreting-studies/contact/request-for-information/

Eligibility and Admission

Applicants to the Certificate Program must hold a bachelor’s degree with an overall GPA of 2.75 or must provide substantial evidence of ability to succeed in graduate-level work.
A degree in the foreign language of concentration, or advanced study in that area, is desirable. In addition, admission to the program is based in part on a qualifying examination administered by the Program. The two-hour exam consists of a short translation from the source to the target language (between 200 and 250 words, depending on the source language) and one 300 to 500 word essay in English.

**Application**

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

**Credits and Courses**

Students must complete 21 credits of required courses; all credits must be at the graduate level, including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Language Concentration**

Students must select a language concentration and complete the three courses (9 cr) listed below for that concentration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 706</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 716</td>
<td>Seminar in Advanced Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

**English to Spanish**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 702</td>
<td>Introduction to Translation: English to Spanish</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 712</td>
<td>Seminar in Advanced Translation: English to Spanish</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Arabic to English**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 704</td>
<td>Introduction to Translation: Arabic to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 714</td>
<td>Advanced Translation: Arabic to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Russian to English**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 719</td>
<td>Introduction to Translation: Russian to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 729</td>
<td>Seminar in Advanced Translation: Russian to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

In consultation with the program coordinator, students must select 3 credits from among the following courses. Additional appropriate courses may be counted toward the certificate with the consent of the coordinator. All courses are online unless otherwise noted.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 530</td>
<td>Business and Professional Aspects of Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 727</td>
<td>Project Management in Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 728</td>
<td>Editing for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 700</td>
<td>Consecutive Interpreting (all languages)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 711</td>
<td>Ethics and Procedures in Interpreting (all languages)</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
<tr>
<td>MALLT 708</td>
<td>Proseminar in Linguistics (on site only)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 708</td>
<td>Advanced Professional Writing</td>
<td>3</td>
</tr>
</tbody>
</table>
Transfer Credit
Certificate coursework at the graduate level may be applied toward an M.A. degree in the MALLT Program. Required courses completed as part of an undergraduate degree will not count toward the certificate requirements; in such cases, students, in consultation with the certificate program coordinator, will select additional appropriate elective courses to complete a minimum of 21 certificate program credits after the baccalaureate degree has been awarded.

Grade Point Average Requirement
Students must earn at least an average GPA of 3.0 in courses completed at the graduate level as well as a 3.0 GPA on all credits completed for the certificate. In addition, students must earn a B or better in all courses completed for the certificate.

Capstone requirement
All certificate students will be required to pass a one-hour translation examination.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
   • 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
   • 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information
CRT, 804
Phone: (414) 229-5968
LATIN AMERICAN AND CARIBBEAN STUDIES

UWM graduates in the 21st century will participate in a globalized economy with corresponding internationalization of the mass media, education and the arts. As the United States draws even closer to its neighbors in the Americas, students in the Latin American and Caribbean Studies Undergraduate Certificate Program (LACS) will be especially well prepared for this complex and ever-changing world.

Programs

- Latin American and Caribbean Studies, Undergraduate Certificate (p. 1546)

Latin American and Caribbean Studies Courses

LACS 101 Introduction to Latin American and Caribbean Studies
3 cr. Undergraduate.
Lectures and discussion of a range of topics relating to Latin America and the Caribbean that lead to an understanding of the cultures of these areas.
Prerequisites: none.
General Education Requirements: HU
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
Current Offerings: http://uwm.edu/schedule

LACS 192 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

LACS 193 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

LACS 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult the program director.
Prerequisites: 2.5 GPA, writ cons instr, progr dir, & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

LACS 201 Special Topics in Latin American and Caribbean Studies
3 cr. Undergraduate.
Topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

LACS 289 Internship in Latin American/Caribbean Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of history in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa, cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

LACS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combinations of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

LACS 297 Study Abroad
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Summer 2011.
Current Offerings: http://uwm.edu/schedule

LACS 299 Ad Hoc
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only progr dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LACS 301 Advanced Topics in Latin American and Caribbean Studies
3 cr. Undergraduate.
Advanced-level topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

LACS 326 Brazilian Politics and Society
3 cr. Undergraduate.
Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social environment.
Prerequisites: jr st.
Course Rules: Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule
LACS 489 Internship in Latin American/Caribbean Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Latin American/Caribbean studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Last Taught: Spring 2017, Fall 2011.
Current Offerings: http://uwm.edu/schedule

LACS 496 Advanced UROP Apprenticeship
1-3 cr. Undergraduate.
Advanced undergraduate research participation in a project developed with a supervising member of the faculty of staff.
Prerequisites: acceptance to UROP; prior UROP apprenticeship or equiv rsch experience.
Course Rules: One cr for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

LACS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Summer 2011.
Current Offerings: http://uwm.edu/schedule

LACS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only progr dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LACS 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a Latin American/Caribbean studies faculty or academic staff member.
Prerequisites: jr st; 2.5 GPA; writ cons instr, progr dir, & asst dean for SAS.
Course Rules: Retakable w/chg in topic to 9 cr max in any combination of LACS/Latino 698, LACS 699, & Latino 699.
Last Taught: Spring 2011.
Current Offerings: http://uwm.edu/schedule

LACS 789 Graduate Internship in Latin American and Caribbean Studies
1-3 cr. Graduate.
Application of basic principles of Latin American/Caribbean Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

Latin American and Caribbean Studies, Undergraduate Certificate
Like a departmental minor, the LACS undergraduate certificate offers a specific academic focus but differs by being interdisciplinary, allowing students to combine related courses in different disciplines to explore common themes. Students who earn a certificate demonstrate their intellectual commitment to a subject and their competence in scholarly areas, which can prove valuable at the graduate level or in the workplace.

Numerous study abroad opportunities are available to students in any of these programs, including short-term and longer-length. Most students start planning their study abroad experience early in sophomore year for trips that take place in junior year. Popular destinations include Mexico, Cuba, Brazil, Peru, Ecuador, Argentina, and Chile.

Eligibility
The Certificate in Latin American and Caribbean Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements.

Requirements
You are strongly advised to consult both the Latin American and Caribbean Studies advisor and your L&S advisor to ensure you stay on track towards a degree.

Proficiency in a language (other than English) widely spoken in Latin America or the Caribbean is required. The Center for Latin American and Caribbean Studies will determine which languages will satisfy the certificate. This requirement may be fulfilled by either:

1. successful completion (with a grade of C or above) of any upper-level (numbered 300 or above) course in the target language; or
2. successful completion of a language proficiency examination.
Exceptions to this requirement must be approved by the LACS Certificate Committee.

Students must complete 21 credits in Latin American and Caribbean content courses, 12 of which must be at the 300 level or above. The 21 credits include one required course, LACS 101. Students must take courses in at least two curricular areas, although three areas are recommended. No more than 12 credits in any one curricular area may be counted towards the certificate program, and no more than 3 credits may be in independent study courses. In addition to any Latin American content courses taken in a semester-length, UWM-approved study abroad program in Latin America or the Caribbean, an additional three credits for participating also may be counted, if courses are taken within an immersion setting (as determined by the Center for Latin American and Caribbean Studies). A 2.750 GPA or better must be achieved in all UWM coursework and in all certificate credits. At least 12 credits of the Latin American/Caribbean content courses must be completed at UWM.
Courses that meet the certificate requirements include, but are not limited to, those in the following list. For the most current list of Latin American and Caribbean content courses, see the Center for Latin American and Caribbean Studies (http://uwm.edu/clacs), located at NWQ B 2484.

### Africology

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AFRICOL 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers</td>
<td>3</td>
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<tr>
<td>AFRICOL 299</td>
<td>Ad Hoc: Africa in the Re-Configuring Global System (Sex in the Caribbean)</td>
<td>1-6</td>
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<tr>
<td>AFRICOL 311</td>
<td>African Religious Thought and Social Organizations</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 334</td>
<td>Survey of Black American and Black Brazilian Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 411</td>
<td>Change in African-American Communities</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
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### Anthropology

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ANTHRO 225</td>
<td>The Aztec Empire</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 309</td>
<td>Archaeology of Central and South America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 310</td>
<td>Archaeology of Middle America</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 328</td>
<td>Comparative Studies of Music, Race, and Gender in Nationalism</td>
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### Art History

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<tr>
<td>ARTHIST 104</td>
<td>African, New World and Oceanic Art and Architecture</td>
<td>3</td>
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<tr>
<td>ARTHIST 251</td>
<td>Introduction to the Art and Architecture of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 367</td>
<td>Latin American Modernisms</td>
<td>3</td>
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<tr>
<td>ARTHIST 372</td>
<td>Art of the Inca and their Ancestors</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 373</td>
<td>Art of Ancient Mexico and Central America</td>
<td>3</td>
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<tr>
<td>ARTHIST 375</td>
<td>Art of the Aztec Empire</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 474</td>
<td>Maya Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 499</td>
<td>Ad Hoc: (Modern Art of Latin America)</td>
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### Biological Sciences

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<th>Code</th>
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<tbody>
<tr>
<td>BIO SCI 297</td>
<td>Study Abroad: (Ecology of Tropical Streams in Costa Rica)</td>
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<tr>
<td>BIO SCI 497</td>
<td>Study Abroad: (Ecology of Tropical Streams in Costa Rica)</td>
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### Comparative Literature

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>COMPLIT 135</td>
<td>Experiencing Literature in the 21st Century: (Women and War in Latin America and the Caribbean)</td>
<td>3</td>
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<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (Cowboys, Gauchos, and Other Narratives of the Frontier)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics: (Gender and the Historical Novel or Women and War)</td>
<td>3</td>
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<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (Literary and Artistic Perspectives on Prostitution)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (Narratives in Torture)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 365</td>
<td>Literatures and Cultures of the Americas: (Comparative Caribbeans)</td>
<td>3</td>
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### Conservation and Environmental Science

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<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CES 297</td>
<td>Study Abroad: (Ecology of Tropical Streams in Costa Rica)</td>
<td>1-12</td>
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<tr>
<td>CES 497</td>
<td>Study Abroad: (Ecology of Tropical Streams in Costa Rica)</td>
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### Dance

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>DANCE 370</td>
<td>World Movement Traditions: (Argentinian Tango)</td>
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### Economics

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<tr>
<th>Code</th>
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<tr>
<td>ECON 193</td>
<td>First-Year Seminar: (Prosperity, Poverty, and Economic Justice)</td>
<td>3</td>
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<td>ECON 353</td>
<td>Economic Development</td>
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### English

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<tbody>
<tr>
<td>ENGLISH 297</td>
<td>Study Abroad: (&quot;Mexico and Cuba - Comparative Globalization&quot; subtitle)</td>
<td>1-12</td>
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<tr>
<td>ENGLISH 316</td>
<td>World Cinema: Subtitles:</td>
<td>3</td>
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<tr>
<td>ENGLISH 320</td>
<td>Studies in Film Authorship: (Cuban and Mexican Filmmakers)</td>
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### Atmospheric Sciences

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<tbody>
<tr>
<td>ATM SCI 297</td>
<td>Study Abroad: (Mexico - Air Pollution and Ancient Cultures)</td>
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<tr>
<td>ATM SCI 497</td>
<td>Study Abroad: (Mexico - Air Pollution and Ancient Cultures)</td>
<td>1-12</td>
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<tr>
<td>Code</td>
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<tr>
<td>ENGLISH 366</td>
<td>Non-Fiction Prose: (Caribbean Nonfiction)</td>
<td>3</td>
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<tr>
<td>ENGLISH 463</td>
<td>Writers in African-American Literature: (Caribbean Literature)</td>
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<td>ENGLISH 497</td>
<td>Study Abroad: (Mexico and Cuba - Comparative Globalization)</td>
<td>1-12</td>
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<tr>
<td>ENGLISH 625</td>
<td>Seminar in Literary History: (Caribbean Literary History)</td>
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<tr>
<td>FILMSTD 316</td>
<td>World Cinema:</td>
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<td>GEOG 297</td>
<td>Study Abroad: (Urban Environmental Changes in Guatemala)</td>
<td>1-12</td>
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<tr>
<td>GEOG 421</td>
<td>Geography of Latin America</td>
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<tr>
<td>GEOG 462</td>
<td>Cultural Geography of Latin America</td>
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<td>GEOG 497</td>
<td>Study Abroad: (Urban Environmental Changes in Guatemala)</td>
<td>1-12</td>
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<tr>
<td>GEOG 654</td>
<td>Tropical Field Course: (Belize; Panama)</td>
<td>3</td>
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<tr>
<td>HIST 180</td>
<td>Latin American Society and Culture</td>
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<tr>
<td>HIST 393</td>
<td>History of Mexico</td>
<td>3</td>
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<td>HIST 400</td>
<td>Topics in Latin American and Caribbean History.</td>
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<tr>
<td>LACS 101</td>
<td>Introduction to Latin American and Caribbean Studies</td>
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<tr>
<td>POL SCI 320</td>
<td>Politics of Developing Countries</td>
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<tr>
<td>POL SCI 325</td>
<td>Latin American Politics</td>
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<td>POL SCI 326</td>
<td>Brazilian Politics and Society</td>
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<td>POL SCI 346</td>
<td>U.S.-Latin American Relations</td>
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<td>PORTUGS 103</td>
<td>First-Semester Portuguese</td>
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<td>PORTUGS 104</td>
<td>Second-Semester Portuguese</td>
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<tr>
<td>PORTUGS 110</td>
<td>Accelerated Portuguese I</td>
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<tr>
<td>PORTUGS 192</td>
<td>First-Year Seminar: (History of Brazil)</td>
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<tr>
<td>PORTUGS 203</td>
<td>Third-Semester Portuguese</td>
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<td>PORTUGS 204</td>
<td>Fourth-Semester Portuguese</td>
<td>3</td>
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<tr>
<td>PORTUGS 225</td>
<td>Understanding Brazil:</td>
<td>3</td>
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<tr>
<td>PORTUGS 297</td>
<td>Study Abroad: (The African Presence in Brazil)</td>
<td>1-12</td>
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<tr>
<td>PORTUGS 299</td>
<td>Ad Hoc: (Accelerated Portuguese)</td>
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<tr>
<td>PORTUGS 310</td>
<td>Advanced Composition and Conversation</td>
<td>3</td>
</tr>
<tr>
<td>PORTUGS 360</td>
<td>Luso-Brazilian Culture:</td>
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<td>PORTUGS 380</td>
<td>Luso-Brazilian Literature in Translation:</td>
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<td>PORTUGS 457</td>
<td>Seminar in Luso-Brazilian Literature</td>
<td>3</td>
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<tr>
<td>PORTUGS 497</td>
<td>Study Abroad: (The African Presence in Brazil)</td>
<td>1-12</td>
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<tr>
<td>PORTUGS 499</td>
<td>Ad Hoc: (Brazilian History and Culture)</td>
<td>1-6</td>
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<td>SPANISH 192</td>
<td>First-Year Seminar:</td>
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<tr>
<td>SPANISH 203</td>
<td>Third-Semester Spanish</td>
<td>3</td>
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<tr>
<td>SPANISH 204</td>
<td>Fourth-Semester Spanish</td>
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<tr>
<td>SPANISH 308</td>
<td>Advanced Writing and Reading</td>
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<tr>
<td>SPANISH 315</td>
<td>Spanish Immersion Experience</td>
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<tr>
<td>SPANISH 318</td>
<td>Advanced Speaking and Listening</td>
<td>3</td>
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<tr>
<td>SPANISH 319</td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
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<tr>
<td>SPANISH 332</td>
<td>Business and Legal Spanish I</td>
<td>3</td>
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<tr>
<td>SPANISH 338</td>
<td>Spanish for Health Professionals</td>
<td>3</td>
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<tr>
<td>SPANISH 341</td>
<td>Introduction to Hispanic Linguistics</td>
<td>3</td>
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<tr>
<td>SPANISH 342</td>
<td>Business and Legal Spanish II</td>
<td>3</td>
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<tr>
<td>SPANISH 348</td>
<td>Introduction to Translation: English to Spanish</td>
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<tr>
<td>SPANISH 350</td>
<td>Introduction to Literary Analysis</td>
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<tr>
<td>SPANISH 391</td>
<td>Social and Historical Issues in the Hispanic World: (Latin America - Past and Present)</td>
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<tr>
<td>SPANISH 443</td>
<td>Spanish Phonetics and Phonology</td>
<td>3</td>
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<td>SPANISH 444</td>
<td>Spanish Syntax and Morphology</td>
<td>3</td>
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<td>SPANISH 446</td>
<td>Hispanic Sociolinguistics</td>
<td>3</td>
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<tr>
<td>SPANISH 470</td>
<td>Survey of Hispanic Literature and Civilization</td>
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<tr>
<td>SPANISH 472</td>
<td>Survey of Spanish-American Literature and Civilization</td>
<td>3</td>
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<tr>
<td>SPANISH 491</td>
<td>Topics in Hispanic Culture:</td>
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<td>SPANISH 507</td>
<td>Seminar in Spanish-American Literature:</td>
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<td>SPANISH 541</td>
<td>History of the Spanish Language</td>
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<tr>
<td>SPANISH 571</td>
<td>Seminar in Spanish-American Colonial Literature and Civilization:</td>
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<td>SPANISH 575</td>
<td>Seminar in 18th &amp; 19th Century Spanish-American Literature &amp; Civilization:</td>
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<td>SPANISH 577</td>
<td>Seminar in Modern Spanish-American Literature and Civilization:</td>
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**Urban Planning**

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<tr>
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<tbody>
<tr>
<td>URBPLAN 692</td>
<td>Special Topics in Urban Planning: (Latino Cities)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Contact Information**

Current Students contact Advisor Alida Cardos Whaley, alida@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/latin-american-caribbean-us-latino-studies/certificates/latin-american-caribbean-studies-certificate/
LATIN AMERICAN, CARIBBEAN, AND U.S. LATIN@ STUDIES

Note: The @ ending (“a” at the center of “o”) offers a simultaneous presentation of both the feminine and masculine word endings of Latina and Latino and allows the reader or speaker to choose one, both, or a variation of the gendered forms.

Uniquely UWM, the Department of Latin American, Caribbean, and U.S. Latin@ Studies integrates the study of peoples and culture of Latin America and the Caribbean with the study of U.S. Latin@s. Most other programs focus on one or the other. Alumni work stateside or abroad in health services, education, nonprofits, business, and government. An accelerated program leads to both the BA and a master’s in translation in five years.

Programs
- Latin American, Caribbean, and U.S. Latin@ Studies, BA (p. 1552)

Latin American, Caribbean, and U.S. Latin@ Studies Courses

LACUSL 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult the program coordinator.
Prerequisites: 2.50 gpa; writ cons inst, prog coord, & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

LACUSL 200 Special Topics in Latin American, Caribbean, and U.S. Latin@ Studies: 3 cr. Undergraduate.
Various topics that integrate the experiences of Latin American, Caribbean, and U.S. Latin@ populations, environments, and/or cultures.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 9 cr max. Counts as repeat of LACS/Latino 200 w/same topic.
Last Taught: Fall 2015, Spring 2013.
Current Offerings: http://uwm.edu/schedule

LACUSL 201 Latin American, Caribbean, and U.S. Latin@ Arts and Culture:
3 cr. Undergraduate.
Approaches to the art, literature, and other cultural productions of Latin America, the Caribbean, and the Latin@ U.S.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

LACUSL 289 Internship in Latin American, Caribbean, and U.S. Latino Studies, Lower Div 1-6 cr. Undergraduate.
Application of basic principles of Latin American, Caribbean, and U.S. Latino studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.
Prerequisites: 2.50 gpa, cons supervising faculty member.
Course Rules: Retakable to 6 cr max.
Last Taught: Summer 2016.
Current Offerings: http://uwm.edu/schedule

LACUSL 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

LACUSL 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Program.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LACUSL 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Prerequisites: none; addl prereqs may be assigned to specific topic.
Course Rules: Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one addl sem. Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LACUSL 300 Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies:
3 cr. Undergraduate.
Advanced study of topics that integrate the experiences of U.S. Latino populations with their countries of origin.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max. Counts as repeat of LACS/Latino 300 w/same topic.
Last Taught: Spring 2016, Spring 2012.
Current Offerings: http://uwm.edu/schedule

LACUSL 324 Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre
3 cr. Undergraduate.
Survey of Latin American, Caribbean, and U.S. Latina/o theatre and performance. History and cultures of the Americas that shape these productions.
Prerequisites: jr st.
Course Rules: Counts as repeat of LACS or Latino 324. LACUSL 324 & Theatre 324 are jointly-offered; they count as repeats of one another.
General Education Requirements: CD, A
Current Offerings: http://uwm.edu/schedule

LACUSL 329 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

LACUSL 396 Internship in Latin American, Caribbean, and U.S. Latino Studies, Upper Div
1-6 cr. Undergraduate.
Application of basic principles of Latin American, Caribbean, and U.S. Latino studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.
Prerequisites: 2.50 gpa, cons supervising faculty member.
Course Rules: Retakable to 6 cr max.
Last Taught: Summer 2016.
Current Offerings: http://uwm.edu/schedule

LACUSL 397 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Program.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule
LACUSL 489 Internship in Latin American, Caribbean, and US Latino Studies, Upper Level
1-6 cr. Undergraduate.
Application of basic principles of Latin American, Caribbean, and U.S. Latino studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.
Prerequisites: jr st; 2.50 gpa; written cons supervising prof.
Course Rules: Retakable to 6 cr max.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

LACUSL 496 UROP Apprenticeship, Upper Level
1-3 cr. Undergraduate.
Advanced-level undergraduate research in a project developed with a supervising member of the faculty or academic staff. One credit for 45 hours research.
Prerequisites: jr st; acceptance to UROP; prior on conc reg in UROP seminar.
Course Rules: Retakable to 9 cr max in any combination of UROP apprenticeship courses.
Current Offerings: http://uwm.edu/schedule

LACUSL 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UW-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LACUSL 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add’l semester.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LACUSL 680 LACUSL Senior Research Project
3 cr. Undergraduate.
Independent capstone project for the LACUSL major, integrating Latin@ and Latin American/Caribbean perspectives on a topic selected by the student in consultation with their faculty mentor.
Prerequisites: sr st; declared LACUSL major.
Last Taught: Fall 2015.
Current Offerings: http://uwm.edu/schedule

LACUSL 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced independent work under supervision of faculty or academic staff member. For further information, consult the program coordinator.
Prerequisites: jr st; 2.50 gpa; written cons instr, prog coord, & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maria-Antonieta Avila</td>
<td>Assistant Professor (Curriculum and Instruction)</td>
<td>PhD</td>
<td>University of Texas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nancy Bird-Soto</td>
<td>Associate Professor (Spanish and Portuguese)</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natasha Borges Sugiyama</td>
<td>Associate Professor (Political Science)</td>
<td>PhD</td>
<td>University of Texas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brenda Cárdenas</td>
<td>Associate Professor (English)</td>
<td>PhD</td>
<td>University of Michigan-Ann Arbor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sarah Davies Cordova</td>
<td>Professor (French, Italian, and Comparative Literature)</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Christopher Davis-Benavides</td>
<td>Professor (Art and Design)</td>
<td>MFA</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raoul Deal</td>
<td>Senior Lecturer (Cultures and Communities)</td>
<td>MFA</td>
<td>Universidad Nacional Autónoma de México</td>
<td></td>
<td></td>
</tr>
<tr>
<td>César Ferreira</td>
<td>Professor (Spanish and Portuguese)</td>
<td>PhD</td>
<td>University of Texas at Austin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simone Ferro</td>
<td>Professor (Dance)</td>
<td>MFA</td>
<td>University of Iowa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enrique Figueroa</td>
<td>Associate Professor (Urban Planning)</td>
<td>PhD</td>
<td>University of California, Davis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jean Hudson</td>
<td>Associate Professor (Anthropology)</td>
<td>PhD</td>
<td>University of California, Santa Barbara</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michelle Lopez-Ríos</td>
<td>Associate Professor (Theatre)</td>
<td>MFA</td>
<td>University of Houston</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aims McGuinness</td>
<td>Associate Professor (History)</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Latin American, Caribbean, and U.S Latin@ Studies, BA

UWM students interested in pursuing advanced knowledge about the varied cultures, histories, languages, and origins that are included within Latino/a populations have three different programs to choose from, including a major and two different certificates.

UWM students in the Latin American, Caribbean, and U.S Latin@ Studies (LACUSL) major learn about the many different histories, cultures, and modern issues of Latinos from all three regions - Latin America, the Caribbean, and the United States. It is among a small handful of programs nationwide to explore both Latinos in the U.S. as well as those living in Latin America and the Caribbean; most programs focus on one or the other. Coursework spans several departments, including history, sociology, the arts, political science, anthropology, languages and literature, giving students many different lenses through which to look.

Many students choose this major because they intend to work with the Latino/a population in some way. They may be going into health services, education, manufacturing, business, nonprofit work, social services, trade, or government work. Regardless of industry, they understand that the impact of globalization is growing and they recognize the increasing importance of Latin American countries and Latinos in the U.S. as political and economic forces.

Students more interested in the experience of Latino/as within the United States might find our certificate in Latino Studies well-suited to their personal and professional goals. A certificate is similar to a minor in terms of number of credits, but like the interdisciplinary LACUSL major mentioned above, it draws on classes from many different subject areas. Students can expect to take classes from history, English, Spanish, educational policy, and sociology.

Students more interested in the peoples of Latin America and the Caribbean should explore the certificate in Latin American and Caribbean Studies in more detail. The certificate is very similar to the major in terms of content.

Both certificates are excellent complements to other majors both within the College of Letters & Science as well as professional degrees such as business, education, nursing or health sciences.

Numerous study abroad opportunities are available to students in any of these programs, including short-term and longer-length. Most students start planning their study abroad experience early in sophomore year for trips that take place in junior year. Popular destinations include Mexico, Cuba, Brazil, Peru, Ecuador, Argentina, and Chile.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Arts
Select 3 credits

**Humanities**
Select 6 credits

**Social Sciences**
Select 6 credits

**Natural Sciences**
Select 6 credits (at least two courses including one lab)

**UWM Foreign Language Requirement**
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

**UWM Cultural Diversity Requirement**
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

### College of Letters & Science Requirements

**I. English Writing Requirement**
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

**II. Mathematics and Formal Reasoning**
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.*

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

**III. Foreign Language Requirement**
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

**Code**
**Title**
**Credits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

*Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.*

**IV. International Requirement**
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>

**V. Breadth Requirement**
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural
Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
</tbody>
</table>

**Humanities**

Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.

**Social Sciences**

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

**Natural Sciences**

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation.

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

**Major Requirements**

Students are required to complete a minimum of 33 credits in the major, at least 15 of which must be taken at the advanced level (300 and above) in residence at UWM. The College requires that all students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

With approval of program coordinator, a relevant course not currently listed above may be substituted.

The following are required:

**Major Requirements**

Students are required to complete a minimum of 33 credits in the major, at least 15 of which must be taken at the advanced level (300 and above) in residence at UWM. The College requires that all students attain at least a 2.500 GPA on all major credits attempted, including any transfer work.

With approval of program coordinator, a relevant course not currently listed above may be substituted.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>Introductory</td>
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</tr>
<tr>
<td>LACS 101</td>
<td>Introduction to Latin American and Caribbean Studies</td>
<td>3</td>
</tr>
<tr>
<td>LATINO 101</td>
<td>Introduction to Latino Studies</td>
<td>3</td>
</tr>
<tr>
<td>LACUSL 699</td>
<td>Latin@ and Latin American-Caribbean Integrative Content</td>
<td>6</td>
</tr>
<tr>
<td>Select two of the following:</td>
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<tr>
<td>COMPLIT 365</td>
<td>Literatures and Cultures of the Americas: (subtitle)</td>
<td></td>
</tr>
<tr>
<td>CURRINS 550</td>
<td>Using Children's Literature to Explore Latin American/Latino Cultural Heritage</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (with appropriate subtitle)</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 394</td>
<td>Theories of Mass Culture: (Latino and Latin American Popular Culture)</td>
<td></td>
</tr>
<tr>
<td>HIST 372</td>
<td>Topics in Global History</td>
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</tr>
<tr>
<td>LACUSL 200</td>
<td>Special Topics in Latin American, Caribbean, and U.S. Latin@ Studies:</td>
<td></td>
</tr>
<tr>
<td>LACUSL 300</td>
<td>Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies:</td>
<td></td>
</tr>
<tr>
<td>LACUSL/THEATRE 324</td>
<td>Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre</td>
<td></td>
</tr>
<tr>
<td>LACUSL 699</td>
<td>Advanced Independent Study</td>
<td></td>
</tr>
<tr>
<td>LATINO/SOCIOL 423</td>
<td>Latino Immigration and Incorporation:</td>
<td></td>
</tr>
</tbody>
</table>

**Capstone**

LACUSL 680 or LACUSL 699 LACUSL Senior Research Project 1 3

**Electives**

Select 18 credits (see below) 18

Total Credits 33

1 In semesters when LACUSL 680 is not offered, students may complete the capstone requirement by taking LACUSL 699, with an appropriate faculty member from the LACUSL associated faculty.

L&S guidelines require that the student:

1. conduct independent research;
2. evaluate and integrate prior research; and
3. present the findings in a professional manner and context; and that the sponsoring faculty member provide clear guidelines on how performance will be evaluated.

The student also may substitute an existing course in one of the curricular codes represented by the major’s electives, provided that it satisfies the L&S research requirement for that major and provided that the major research project undertaken as part of that course has a distinctly LACUSL topic.

**Electives**

Electives may be selected from integrated courses as well as from the three course clusters listed below. Students must take at least two courses from Artistic Expression, at least two from Social and Natural Sciences, and up to two from Language and Communication Skills. At least three different departmental curricular codes must be represented among the electives. A course taken to satisfy the Integrative requirement may not count as an elective. A maximum of 3 credits in an
internship (LACUSL 289 or LACUSL 489) may count as an elective for the major.

With approval of program coordinator, a relevant course not currently listed below may be substituted.

<table>
<thead>
<tr>
<th>Artistic Expression</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 104</td>
<td></td>
<td>African, New World and Oceanic Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 251</td>
<td></td>
<td>Introduction to the Art and Architecture of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 367</td>
<td></td>
<td>Latin American Modernisms</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 373</td>
<td></td>
<td>Art of Ancient Mexico and Central America</td>
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</tr>
<tr>
<td>ARTHIST 375</td>
<td></td>
<td>Art of the Aztec Empire</td>
<td>3</td>
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<td>SPANISH 472</td>
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<td>Survey of Spanish-American Literature and Civilization</td>
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Total Credits: 71-72

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<td>The Black Woman in America, Africa, and the Caribbean</td>
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<td>The Aztec Empire</td>
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<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity</td>
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<td>Indians, Artists, and Conquistadores: The U.S. Southwest</td>
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<td>Geography of Latin America</td>
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<td>HIST 180</td>
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<td>Latin American Society and Culture</td>
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<td>HIST 267</td>
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<td>The History of Latinos in the United States</td>
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<td>Topics in Global History. (Ethnicity and Media: U.S., Latin America, and Caribbean)</td>
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<td>Topics in American History. (Tale of Two Cities – Milwaukee and Los Angeles)</td>
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<td>LACUSL 200</td>
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<td>LACUSL 300</td>
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<td>Brazilian Politics and Society</td>
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<td>U.S.-Latin American Relations</td>
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<td>SOCIOL 323</td>
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<td>Perspectives on Latino Communities</td>
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Language and Communication Skills

Students are allowed to count up to two courses from this cluster. Courses from this cluster are not required.

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<td>Issues in Bilingualism</td>
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<td>COMMUN 350</td>
<td>Intercultural Communication</td>
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<tr>
<td>COMMUN 550</td>
<td>International and Global Communication</td>
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Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uw.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).
Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Advisor Alida Cardos Whaley, alida@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/latin-american-caribbean-us-latino-studies/undergraduate/
LATINO STUDIES

The Latino Studies Undergraduate Certificate Program is designed for students who have an interest in Latino studies, regardless of major or college affiliation. It utilizes an interdisciplinary approach to examining the experiences, cultures, and social conditions of Latinos in the United States.

Programs

- Latino Studies, Undergraduate Certificate (p. 1559)

Latino Studies Courses

LATINO 101 Introduction to Latino Studies
3 cr. Undergraduate.
Analyses of the historical and structural forces which have shaped the experience of Latinos in the U.S., including the relationship between Latinos and social institutions.
Prerequisites: none.
General Education Requirements: CD, SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

LATINO 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

LATINO 199 Independent Study
1-3 cr. Undergraduate.
Independent study under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Last Taught: Summer 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

LATINO 201 Special Topics in U.S. Latino Studies:
3 cr. Undergraduate.
Interdisciplinary topics central to U.S. Latino studies.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

LATINO 267 The History of Latinos in the United States
3 cr. Undergraduate.
History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences.
Prerequisites: none.
Course Rules: Hist 267 & Latino 267 are jointly offered; they count as repeats of one another.
General Education Requirements: HU, CD
Last Taught: Summer 2017, Summer 2016.
Current Offerings: http://uwm.edu/schedule

LATINO 279 Introduction to U.S. Latino/a Literature:
3 cr. Undergraduate.
Latino/a American literature with a focus on region, genre, theme, or period.
Prerequisites: grade of C or better in English 102(P) or score at level 4 on EPT.
Course Rules: Retakable w/chg in topic to 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another.
General Education Requirements: CD, HU
Current Offerings: http://uwm.edu/schedule

LATINO 289 Internship in Latino Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

LATINO 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: http://uwm.edu/schedule

LATINO 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LATINO 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2011.
Current Offerings: http://uwm.edu/schedule

LATINO 301 Advanced Topics in U.S. Latino Studies:
3 cr. Undergraduate.
Advanced-level interdisciplinary topics central to U.S. Latino studies.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
LATINO 323 Perspectives on Latino Communities
3 cr. Undergraduate.
Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives. Emphasis on Chicanos, Cubans, and Puerto Ricans.
Prerequisites: jr st & any Socio 100-level course or cons instr.
Course Rules: Latino 323 & Socio 323 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Last Taught: Fall 2017, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

LATINO 374 Survey of U.S. Latino/a Literature
3 cr. Undergraduate.
A general, representative study of U.S. Latino/a literature.
Prerequisites: jr st; satisfaction of GER English Composition competency req.
Course Rules: English 374 & Latino 374 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

LATINO 388 Latino Politics
3 cr. Undergraduate.
Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses; Chicano movement, immigration policies, public opinion, voting behavior, representation.
Prerequisites: jr st.
Course Rules: Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another.
General Education Requirements: SS, CD
Last Taught: Spring 2013.
Current Offerings: http://uwm.edu/schedule

LATINO 423 Latino Immigration and Incorporation:
3 cr. Undergraduate/Graduate.
Latino institutional, geo-political, demographic, comparative, and social network theoretical perspectives on migration to and incorporation into the United States
Prerequisites: jr st, 3 cr in Sociol at 200 level or above or cons instr; addl prereqs may be assigned for specific topics.
Course Rules: Retakable w/chg in topic to 6 cr max. Latino 423 & Sociol 423 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2014, Spring 2013.
Current Offerings: http://uwm.edu/schedule

LATINO 489 Internship in Latino Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st, 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

LATINO 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LATINO 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; addl prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LATINO 523 Studies in U.S. Latino/a Literature:
3 cr. Undergraduate.
Critical study of themes, figures, aspects, trends, etc. in U.S. Latino/a Literature.
Prerequisites: Retakable w/chg in topic to 9 cr max. English 523 & Latino 523 are jointly offered; they count as repeats of one another. Prerq: jr st; satisfaction of GER English Composition competency req.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

LATINO 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of a Latino Studies faculty or academic staff member.
Prerequisites: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.
Course Rules: Retakable w/chg in topic to 9 cr max in any combination of LACS/Latino 698, LACS 699, and Latino 699.
Last Taught: Spring 2009.
Current Offerings: http://uwm.edu/schedule

Latino Studies, Undergraduate Certificate
Latinos are the fastest growing minority population in the United States, numbering between 50 and 60 million today. Our interdisciplinary program allows students in many majors to complete their existing studies while also deepening knowledge about the experience of the Latin American and Caribbean diaspora in the U.S.

With demographic trends and the need to work with diverse groups, employers will appreciate your specialized training in Latino Studies. The certificate complements academic fields in Letters & Science (Spanish, Sociology, Anthropology, History, and Political Science among others) as well as professional fields such as Business, Criminal Justice, Health Science, Nursing, and Social Welfare. Latino Studies courses also count towards the major in Latin American, Caribbean, and U.S. Latin@ Studies.

Students will find answers to these questions:

- Who are Latinos?
- Why has the U.S. Latino population grown so rapidly in recent years?
- Which groups are growing the fastest?
- How have immigration policies affected population growth and change?
- How do Latinos engage in politics of their communities, states, and the nation?
- Why has their growth spurred so much electoral attention?
- What challenges do Latinos face in terms of racism, sexism, and discrimination?
- What contributions have Latinos made to US art, music, and literature?
- What is the history of Mexicans, Puerto Ricans, and Cubans in the U.S. from the 1600s to the present?

A certificate in Latino Studies is similar to a minor, in that it demonstrates you've achieved substantial knowledge in this interdisciplinary area of study.

The mission of the multidisciplinary Certificate in Latino Studies is twofold:
1. To enable students to understand and evaluate the impact of Latinos on the history, culture, politics, and economy of the United States, and
2. To foster the development of new, critical approaches that enable students to transform their world views and apply sound principles in their professional and personal interactions.

**Eligibility**

The Undergraduate Certificate Program in Latino Studies is open to any University of Wisconsin-Milwaukee undergraduate who has completed at least 15 credits, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor's degree and non-degree students receive the certificate upon completion of the program requirements.

**Requirements**

To obtain the certificate, students must complete 21 credits in approved Latino courses, including 12 credits at the 300 level and above, with a minimum grade point average of 2.500. Students must select courses from at least three curricular areas, including LATINO 101. No more than 12 credits in a single curricular area may count toward the certificate, and a maximum of 3 credits of independent study may be applied to the 21 credit requirement. At least 12 credits for the certificate must be completed in residence at UWM, with at least 9 of the residence credits at the 300 level and above. For additional program information, contact the Latino Studies Coordinator.

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<td>Archaeology of the American Southwest</td>
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**Electives**

Select 18 credits from the following:

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<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
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<td>CURRINS 550</td>
<td>Using Children’s Literature to Explore Latin Am/Latino Cultural Heritage</td>
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<td>ENGLISH 279</td>
<td>Introduction to U.S. Latino/a Literature:</td>
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<td>LACUSL 200</td>
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<td>Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre</td>
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<td>LATINO 699</td>
<td>Advanced Independent Study</td>
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<td>First-Year Seminar: (Latinos and the City)</td>
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<tr>
<td>SOCIOL 323</td>
<td>Perspectives on Latino Communities</td>
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<tr>
<td>SOCIOL 423</td>
<td>Latino Immigration and Incorporation:</td>
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<tr>
<td>SPANISH 319</td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
<td>3</td>
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<tr>
<td>SPANISH 371</td>
<td>Introduction to Latino Literature in English</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 373</td>
<td>Topics in Latino Literature in English</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credits | 21 |

1 Must include 12 credits numbered 300 and above. (Consult the Certificate coordinator for approval to count additional appropriate courses not listed below.)

2 Only one of ENGLISH 374 and SPANISH 371 may count toward the minimum 21 credits required for the certificate.

**Contact Information**

Current Students contact Professor Joe Rodriguez, joerod@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at 
(414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/latin-american-caribbean-us-latino-studies/certificates/latino-studies/
LESBIAN, GAY, BISEXUAL, AND TRANSGENDER (LGBT) STUDIES

Cary Gabriel Costello, Associate Professor, Sociology

Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies investigates the historical and contemporary experiences of people traditionally neglected in scholarship and courses. It explores questions about sexuality as well as identity, community, representation, diversity, assimilation, and discrimination that are both academically and socially significant. Work in this innovative field includes material and methods from many disciplines: English and foreign languages, health professions, anthropology, art history, biology, communications, economics, fine arts, history, music, nursing, political science, psychology, sociology, social welfare, and women's and gender studies.

Programs

- Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate (p. 1563)

Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies Courses

LGBT 192 First-Year Seminar:
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Current Offerings: [link]

LGBT 193 First-Year Seminar:
3 cr. Undergraduate.
Specific social science topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: [link]

LGBT 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Current Offerings: [link]

LGBT 200 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies
3 cr. Undergraduate.
Explores ideas about sexual identity and community through theory, literature, film, photography, music, and popular culture.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: [link]

LGBT 275 Queer Migrations
3 cr. Undergraduate.
How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities.
Prerequisites: none.
Course Rules: No cr for students w/cr in Ethnic 250 w/similar topic. Ethnic 275 & LGBT 275 are jointly offered; they count as repeats of one another.
General Education Requirements: HU, CD
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

LGBT 289 Internship in LGBT Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of LGBT studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Last Taught: Spring 2018.
Current Offerings: [link]

LGBT 290 Topics in LGBT Studies:
3 cr. Undergraduate.
Selected LGBT topics and issues. Specific topics and add'l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2016, Fall 2013, Spring 2013, Spring 2012.
Current Offerings: [link]

LGBT 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: Not open to jrs & srs.
Current Offerings: [link]

LGBT 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: [link]
Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate

The Undergraduate Certificate in Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies explores questions about sexuality, identity, gender, community, representation, diversity, assimilation, and discrimination that are both academically and socially significant.

This certificate is designed for all students, regardless of major, who have an interest in learning more about the history and contemporary life of LGBT individuals. Students who earn the LGBT Studies certificate are prepared for careers that involve interaction with people of diverse backgrounds in areas such as business, education, healthcare, and law. Some graduates go on to work in social services or public affairs, promoting equality in legislation and policy.

Coursework in this program is interdisciplinary and includes materials and methods from many fields, including Africology, anthropology, communication, comparative literature, economics, English, ethnic studies, film studies, health sciences, history, linguistics, music, nursing, political science, psychology, social welfare, sociology, theatre, and women's and gender studies.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The LGBT Studies Undergraduate Certificate is designed for students majoring in any field who wish to complement their study of a discipline with an additional concentration in lesbian, gay, bisexual, and transgender studies. Any student in good standing at the University of Wisconsin-Milwaukee who is seeking a bachelor's degree or who previously received a bachelor's degree from UWM or any other accredited college or university is eligible to participate in the certificate program. The program also is open to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular University admission requirements.

Requirements

The LGBT Studies Undergraduate Certificate requires completion of 18 credits in approved courses, with a minimum GPA of 2.500, as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGBT 200</td>
<td>Introduction to Lesbian, Gay, Bisexual, and Transgender Studies</td>
<td>3</td>
</tr>
<tr>
<td>WGS 301</td>
<td>Queer Theory</td>
<td>3</td>
</tr>
<tr>
<td>LGBT 599</td>
<td>Selected Topics in LGBT Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 9 credits</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>18</td>
</tr>
</tbody>
</table>

Contact Information

Cary Gabriel Costello
BOL, 738

costello@uwm.edu
Electives
Select 9 credits of approved LGBT Studies curricular area or cross-listed coursework, of which 3 credits must be in courses numbered 300 or above.

Students are limited to a maximum of 6 credits in independent study and no more than 9 credits from any one department. At least half the credits must be taken in residence at UWM, and no courses may be taken on a credit/no credit basis.

Credits earned at other institutions in equivalent LGBT courses, as well as credits earned and approved through study abroad, are accepted in partial fulfillment of the requirements. Students must obtain the approval of the certificate program committee to apply more than nine credits from courses at other institutions to the program requirements.

Approved Electives
The following courses are approved to count toward the LGBT Studies Certificate. Additional courses may be found each semester in the Schedule of Classes. In addition, students are encouraged to consult the Program Coordinator and to petition for the inclusion of relevant courses as appropriate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 344</td>
<td>Global Black Social Movements</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 418</td>
<td>Race, Class, and Gender in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 400</td>
<td>Human Sociobiology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 445</td>
<td>Psychological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BMS 201</td>
<td>Sexually Transmitted Diseases and AIDS</td>
<td>3</td>
</tr>
<tr>
<td>BMS/COMSDIS/</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
</tr>
<tr>
<td>HCA/KIN/OCCTHPY/</td>
<td></td>
<td></td>
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<tr>
<td>THERREC 245</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMUN 401</td>
<td>Communication in Marital and Family Relationships</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 402</td>
<td>Gender and Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 410</td>
<td>Organizational Communication Technology</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 681</td>
<td>Seminar in Communication in a World of AIDS</td>
<td>3</td>
</tr>
<tr>
<td>ECON 248</td>
<td>Economics of Discrimination</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 532</td>
<td>Male Identity: Education and Development</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 629</td>
<td>Seminar in Literature and Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 275</td>
<td>Queer Migrations</td>
<td>3</td>
</tr>
<tr>
<td>HIST 141</td>
<td>The Family and Sex Roles in the Past</td>
<td>3</td>
</tr>
<tr>
<td>HIST 241</td>
<td>Women and Gender in Europe: 1350 to 1750</td>
<td>3</td>
</tr>
<tr>
<td>HIST 242</td>
<td>Women and Gender in Europe: 1750 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 243</td>
<td>History of Women in American Society</td>
<td>3</td>
</tr>
<tr>
<td>HIST 373</td>
<td>Topics in Gender and History</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 111</td>
<td>Gender and the Media</td>
<td>3</td>
</tr>
<tr>
<td>KIN 351</td>
<td>Sociological Aspects of Health and Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 212</td>
<td>Language and Gender</td>
<td>3</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 235</td>
<td>Philosophical Aspects of Feminism</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 412</td>
<td>Constitutional Law: Civil Rights and Liberties</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 464</td>
<td>Sex, Gender, and the Law</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 471</td>
<td>Problems in Law Studies: (Law and Sexuality)</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 319</td>
<td>Gay and Lesbian Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 320</td>
<td>Psychology of Women</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 100</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 250</td>
<td>Human Behavior and the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 581</td>
<td>Youth Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 665</td>
<td>Cultural Diversity and Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 250</td>
<td>Sex and Gender</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 255</td>
<td>Sociology of Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 260</td>
<td>Blood, Sex, Money, Power: Families and Intimate Relationships</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 341</td>
<td>Sociology of Deviant Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 440</td>
<td>Sociology of the Family</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO 444</td>
<td>Sociology of the Body</td>
<td>3</td>
</tr>
<tr>
<td>WGS 200</td>
<td>Introduction to Women’s and Gender Studies: A Social Science Perspective</td>
<td>3</td>
</tr>
<tr>
<td>WGS 201</td>
<td>Introduction to Women’s and Gender Studies: A Humanities Perspective</td>
<td>3</td>
</tr>
<tr>
<td>WGS 302</td>
<td>Gendered Bodies</td>
<td>3</td>
</tr>
<tr>
<td>WGS 401</td>
<td>Global Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 489</td>
<td>Internship in Women’s and Gender Studies</td>
<td>1-3</td>
</tr>
<tr>
<td>WGS 500</td>
<td>Advanced Social Science Seminar in Women’s and Gender Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Contact Information
Current Students contact Associate Professor Cary Costello, costello@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
LIBERAL STUDIES

Admission to the Master of Liberal Studies is suspended during the redesign of the program.

The College of Letters and Science offers an interdisciplinary graduate program leading to a Master of Liberal Studies. The MLS curriculum consists of small introductory seminars, special topics courses conceived exclusively for the program, electives taken in specific departments, and a final thesis or independent project. All courses are taught by graduate faculty drawn primarily from the College of Letters and Science and augmented by other interested instructors from across the University. Such faculty diversity allows students to expand their cultural and intellectual horizons through a carefully structured course of study that encourages multiple perspectives on important issues and integration of knowledge across disciplines.

The MLS program is housed in the internationally respected Center for Twenty-first Century Studies, which ensures access to leading scholars, outstanding facilities, special lectures and other events. Each fall a limited class of new students is admitted in order to maintain an intimate learning environment, and all courses are offered during evenings. Although the MLS is not a traditional graduate degree that focuses on a single academic field or set of professional skills, its emphasis on critical thinking, imaginative reflection, ethical consideration, and effective communication carries substantial value in both private and public life.

Programs

- Liberal Studies, MLS (p. 1566)

Liberal Studies Courses

LIBRLST 701 Traditions and Transformations I:
3 cr. Graduate.
A fundamental contemporary issue explored through a historical perspective; emphasis on the humanities. Interdisciplinary resources, methods, theories. Required special programs outside regular class hours.
Prerequisites: grad st; admis to MLS Prog.
Course Rules: Not retakable.
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

LIBRLST 702 Traditions And Transformations II:
3 cr. Graduate.
Continuation of LibrlSt 701, exploring a contemporary issue within a more recent modern/postmodern context. Required special programs outside regular class hours emphasize course topics.
Prerequisites: grad st; LibrlSt 701(P)
Course Rules: Retakable w/chg in topic to 12 cr max.
Current Offerings: http://uwm.edu/schedule

LIBRLST 721 Special Topics in Liberal Studies:
3 cr. Graduate.
Topics in human culture emphasizing the pervasiveness of a particular idea, belief, process, or other cultural construct in many facets of human society.
Prerequisites: grad st; admis to MLS Prog
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2014, Fall 2011, Spring 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

LIBRLST 722 Special Topics in Contemporary Cultural Studies:
3 cr. Graduate.
Topics in contemporary culture; emphasis on literature, experimental arts/film, mass culture, performance; new approaches to study of culture, including media theory, multi-culturalism, feminism, post-colonialism.
Prerequisites: grad st; admis to MLS Prog
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Spring 2015, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

LIBRLST 797 Special Topics In International Liberal Studies:
3 cr. Graduate.
Examination of a belief, idea, process, or other cultural construct in an international setting.
Prerequisites: grad st; admis to mls prog
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

LIBRLST 798 Liberal Studies Master's Project
4 cr. Graduate.
Culmination of student’s studies in MLS Program; may take any form appropriate to interdisciplinary focus of student’s study prog, e.g. research paper, performance, literary/exhibition project.
Prerequisites: grad st; 20 cr in the MLS Prog.
Last Taught: Fall 2016, Spring 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

LIBRLST 799 Independent Work in Liberal Studies
1-3 cr. Graduate.
Independent reading or project; topic selected in consultation with supervising professor.
Prerequisites: grad st.
Course Rules: Fee for 1 cr will be assessed.
Current Offerings: http://uwm.edu/schedule

LIBRLST 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr will be assessed.
Current Offerings: http://uwm.edu/schedule

LIBRLST 901 Seminar on Philosophical Approaches to Science
3 cr. Graduate.
The nature and function of sciences, the logic of the scientific method as it relates to health, and implications of research and practices in health care.
Prerequisites: grad st.
Course Rules: C L Sci 901 & LibrlSt 901 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2007.
Current Offerings: http://uwm.edu/schedule
Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>George Clark</td>
<td>Professor</td>
<td>PhD</td>
<td>Florida State University</td>
<td></td>
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</tr>
<tr>
<td>Janis Eells</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Iowa</td>
<td></td>
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<tr>
<td>Shelleen Greene</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Irvine</td>
<td></td>
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<tr>
<td>Kristie Hamilton</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Texas at Austin</td>
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<tr>
<td>Robin Mello</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Leslie University</td>
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<tr>
<td>Bernard Perley</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Harvard University</td>
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<tr>
<td>Robert Schwartz</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Pennsylvania</td>
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<tr>
<td>Merry E. Weisner-Hanks</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Liberal Studies, MLS

Admission to the MLS is suspended during the redesign of the program.

The College of Letters and Science offers an interdisciplinary graduate program leading to a Master of Liberal Studies. The MLS curriculum consists of small introductory seminars, special topics courses conceived exclusively for the program, electives taken in specific departments, and a final thesis or independent project. All courses are taught by graduate faculty drawn primarily from the College of Letters and Science and augmented by other interested instructors from across the University. Such faculty diversity allows students to expand their cultural and intellectual horizons through a carefully structured course of study that encourages multiple perspectives on important issues and integration of knowledge across disciplines.

The MLS program is housed in the internationally respected Center for Twenty-first Century Studies, which ensures access to leading scholars, outstanding facilities, special lectures and other events. Each fall a limited class of new students is admitted in order to maintain an intimate learning environment, and all courses are offered during evenings.

Although the MLS is not a traditional graduate degree that focuses on a single academic field or set of professional skills, its emphasis on critical thinking, imaginative reflection, ethical consideration, and effective communication carries substantial value in both private and public life.

Note: Admission to the MLS is suspended during the redesign of the program.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool-program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

To be considered for admission to the Master of Liberal Studies, an applicant must meet the requirements for admission to the Graduate School. For international students, demonstration of English proficiency for MLS requires a minimum internet-based TOEFL score of 79 for regular graduate admission, 68-78 for dual admission, or a minimum IELTS score of 6.5. In addition, the applicant must submit an essay (two pages) describing why s/he is interested in pursuing graduate study in an interdisciplinary program and describing the educational background and life experiences that s/he brings to the program. An interview with the director of the program also is required.

Major Professor as Advisor

As specified in the regulations of the Graduate School, a major professor will be assigned to every person enrolled in the program to advise and supervise his or her work. Those admitted to the program will consult with the Director of the Master of Liberal Studies program for assistance in identifying an appropriate advisor. The responsibility of the advisor will be to assist in selecting a cohesive sequence of courses and developing a rationale for that sequence. The major advisor must approve the program of study.

Credits and Courses

Thirty credits are required for the MLS degree, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLSI 799</td>
<td>Independent Work</td>
<td></td>
</tr>
<tr>
<td>LGSI 798</td>
<td>Liberal Studies Master's Project</td>
<td></td>
</tr>
</tbody>
</table>

| Total Credits | 30 |

1 Select courses that are designed to orient the individuals to the program, to establish a common base of knowledge in an interdisciplinary context, and to create a sense of intellectual community among the participants, many of whom may be re-entering the world of formal education.

2 Although the core and special topics courses that are designed specifically for the Master of Liberal Studies will be emphasized in all programs of study, participants may wish to take graduate courses offered by departments or to undertake independent study in order to pursue specific interests.
This project, which must be interdisciplinary in nature, can take the form of a traditional research paper or thesis, but it also may adopt an alternative creative, performative, or occupationally related practical model. The project must be approved by the student's advisor and the program director.

**Transfer Credits**

Individuals with prior graduate coursework may receive permission to count up to 9 credits of that work toward the Master of Liberal Studies if the Advisory Committee accepts the courses as relevant to the program of study and if the courses meet Graduate School requirements for transfer. Liberal Studies core courses and the culminating project course must be taken at the University of Wisconsin-Milwaukee.

**Time Limit**

All degree requirements must be completed within five years of initial enrollment.
LINGUISTICS

Linguistics inquires into the nature of human language. In modern times, research in linguistics has concentrated on the search for universal properties of human languages in an effort to understand that unique characteristic of human beings, the faculty of language. Recognition of the importance of modern linguistic research continues to grow today, with research results now seen to have implications for numerous additional disciplines, including anthropology, computer science, education, ethnology, psychology, sociology, and speech pathology.

Many of the courses taught in the Linguistics Department form a required or recommended portion of the curricula of other academic programs.

Programs

- Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate (p. 1574)
- Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate (p. 1576)
- Linguistics, BA (p. 1577)
- Linguistics, MA (p. 1580)
- Linguistics, MA: Teaching English to Speakers of Other Languages (p. 1582)
- Linguistics, Minor (p. 1583)
- Linguistics, PhD (p. 1584)

Linguistics Courses

LINGUIS 100 The Diversity of Human Language
3 cr. Undergraduate.
Survey course on the nature and diversity of human language. Topics include language and society, dialects, language and culture, language acquisition, and language typology.
Prerequisites: none.
General Education Requirements: HU, CD
Current Offerings: http://uwm.edu/schedule

LINGUIS 102 Uncommonly Taught Language: Intensive First Semester
5-7 cr. Undergraduate.
Intensive training in an uncommonly taught language, for students with no previous knowledge of the language.
Prerequisites: none.
Course Rules: May be retaken w/chg of language. FLL 102 & Linguis 102 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2010.
Current Offerings: http://uwm.edu/schedule

LINGUIS 103 First Semester of an Uncommonly-Taught Language
1-4 cr. Undergraduate.
Elementary training in an uncommonly-taught language (i.e. one not otherwise offered in any UWM program). Number of credits earned by the student is determined by the credit value assigned to section number.
Prerequisites: none.
Course Rules: For students with no previous knowledge of the language. May be retaken w/chg in language. FLL 103 & Linguis 103 are jointly offered; with same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 104 Second Semester of an Uncommonly Taught Language:
3-4 cr. Undergraduate.
Continuation of FLL/Linguis 103 (Linguis 131). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 103(Linguis 131)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 104 & Linguis 104 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 105 First-Semester Hmong
3 cr. Undergraduate.
Beginning Hmong for students with no previous knowledge of the language.
Prerequisites: none.
Course Rules: No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 105 & Linguis 105 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 106 Second-Semester Hmong
3 cr. Undergraduate.
Continuation of Linguis 105.
Prerequisites: Hmong 105/Linguis 105 (P).
Course Rules: No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 106 & Linguis 106 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 109 The Diversity of Human Language
3 cr. Undergraduate.
Survey course on the nature and diversity of human language. Topics include language and society, dialects, language and culture, language acquisition, and language typology.
Prerequisites: none.
General Education Requirements: HU, CD
Current Offerings: http://uwm.edu/schedule

LINGUIS 190 Special Topics in Linguistics
1-5 cr. Undergraduate.
Selected topics involving innovative approaches to the study of language, particularly as related to other disciplines.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

LINGUIS 193 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

LINGUIS 199 Independent Study
1-3 cr. Undergraduate.
Prerequisites: 2.5 gpa, cons instr, & either Linguis 100 or any Linguistics course 200 or above.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

LINGUIS 200 Aspects of Language
3 cr. Undergraduate.
Selected topics involving innovative approaches to the study of language, particularly as related to other disciplines.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

LINGUIS 202 Uncommonly Taught Language: Intensive Second Semester
5-7 cr. Undergraduate.
Continuation of FLL/Linguis 102(Linguis 133).
Prerequisites: FLL/Linguis 102(Linguis 133)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 202 & Linguis 202 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule
LINGUIS 203 Third Semester of an Uncommonly Taught Language: 3-4 cr. Undergraduate.
Continuation of FLL/Linguis 104(Linguis 132). Number of credits earned by student is determined by credit value assigned to section number.
Prerequisites: FLL/Linguis 104(Linguis 132)(P) in the same language.
Course Rules: May be retaken w/chg in language. FLL 203 & Linguis 203 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2010.
Current Offerings: http://uwm.edu/schedule

LINGUIS 204 Fourth Semester of an Uncommonly Taught Language: 3-4 cr. Undergraduate.
Continuation of FLL/Linguis 203(Linguis 231). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 203(Linguis 231)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 204 & Linguis 204 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2011.
Current Offerings: http://uwm.edu/schedule

LINGUIS 210 Power of Words 3 cr. Undergraduate.
Dynamic role of language in interpersonal relations, social attitudes and behavior. Topics include: patterns of culture and language, language as identification; prejudice, politics, and advertisement.
Prerequisites: none.
General Education Requirements: CD, HU
Current Offerings: http://uwm.edu/schedule

LINGUIS 211 Origins of Words 3 cr. Undergraduate.
Vocabulary of English from historical origins to the present; how words and word patterns change over time under influences of both internal and external forces.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

LINGUIS 212 Language and Gender 3 cr. Undergraduate.
How patterns of speaking reflect, perpetuate, and create our experience of gender; how gender interacts with race, class, socioeconomic status, age, occupational and social roles.
Prerequisites: none.
Course Rules: Counts as a repeat of Linguis 200 with same topic.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

LINGUIS 213 Grammar for Students of Foreign Languages 3 cr. Undergraduate.
An introduction to the grammatical concepts useful in studying foreign languages.
Prerequisites: none.
Course Rules: Jointly offered with, & may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Polish 213, Russian 213, & Spanish 213.
Current Offerings: http://uwm.edu/schedule

LINGUIS 289 Internship in Linguistics, Lower Division 1-6 cr. Undergraduate.
Application of basic principles of linguistics in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Linguis; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

LINGUIS 297 Study Abroad: 1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/topic chg.
Last Taught: Spring 2016, Fall 2015, Summer 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

LINGUIS 299 Ad Hoc: 1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

LINGUIS 303 Fifth Semester of an Uncommonly Taught Language: 3-4 cr. Undergraduate.
Continuation of FLL/Linguis 204 (Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 204(Linguis 232)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 303 & Linguis 303 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

LINGUIS 304 Sixth Semester of an Uncommonly Taught Language: 3 cr. Undergraduate.
Continuation of FLL/Linguis 303(Linguis 331). Number of credits earned by student is determined by the credit value assigned to section number.
Prerequisites: FLL/Linguis 303(Linguis 331)(P) in same language.
Course Rules: May be retaken w/chg in language. FLL 304 & Linguis 304 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 350 Introduction to Linguistics 3 cr. Undergraduate.
Introduction to basic linguistic principles and concepts. Elementary analysis of sentence patterns, sound systems and language change.
Prerequisites: jr st or a linguis course.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
LINGUIS 390 Fundamentals of Linguistic Analysis
3 cr. Undergraduate/Graduate.
Introduction to the systematic analysis of language. Principles and
methods of describing phonological and syntactic processes.
Prerequisites: jr st & Linguis 350(P) or 400(P).
Current Offerings: http://uwm.edu/schedule

LINGUIS 400 Introduction to English Linguistics
3 cr. Undergraduate/Graduate.
Application of linguistic theory and techniques to modern English.
Linguis/English 400 required of all English majors and minors in School
of Education.
Prerequisites: jr st; Linguis 350(P) or equiv.
Course Rules: Jointly-offered with & counts as repeat of English 400.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

LINGUIS 406 Advanced English Grammar
3 cr. Undergraduate/Graduate.
Continuation of English 403 with emphasis on the analysis of complex
sentences and discourse syntax.
Prerequisites: jr st; satisfaction of GER English Composition competency
req.English 403(P).
Course Rules: English 406 & Linguis 406 are jointly offered; they count as
repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 410 Literacy, Grammar, and Methodologies in ESL Education
3 cr. Undergraduate/Graduate.
Grammatical and other linguistic concepts relevant to ESL education;
implications for teaching language, reading and composition. Topics
include language acquisition and grammatical problems in language/
dialect variation.
Prerequisites: jr st & Linguis 350(P).
Last Taught: Spring 2018, Fall 2016, Fall 2015, UWinterI 2015.
Current Offerings: http://uwm.edu/schedule

LINGUIS 415 First Language Acquisition
3 cr. Undergraduate/Graduate.
Examination of research on what individuals know about their first
language at different ages and the kinds of theories offered to explain
these data.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Last Taught: Fall 2016, Fall 2015, Spring 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

LINGUIS 420 Introduction to Second Language Acquisition
3 cr. Undergraduate/Graduate.
Principles and methods of describing and comparing the structure of two
or more languages with emphasis on the implications of this comparison
for language learning.
Prerequisites: jr st; Linguis 350(P) or equiv.
Current Offerings: http://uwm.edu/schedule

LINGUIS 430 Language and Society
3 cr. Undergraduate/Graduate.
The influence of society on language and of language on society.
Language as social interaction, speech styles, social dialects; effects on
language change.
Prerequisites: jr st & Linguis 350(P).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

LINGUIS 432 Urban Dialects
3 cr. Undergraduate/Graduate.
Study of language variation in urban areas. Structure of black English
vernacular and its relation to other dialects. Social and educational
implications of dialect variation.
Prerequisites: jr st & Linguis 100 or 350.
Current Offerings: http://uwm.edu/schedule

LINGUIS 440 Psycholinguistics
3 cr. Undergraduate/Graduate.
A survey of the history, goals, methods, and findings of psycholinguistics.
Principal topics: phonetic perception, speech production, syntactic
processing, linguistic memory, meaning, and language acquisition.
Prerequisites: jr st, Linguis 350(R) or Psych 101(R); or grad st & cons
instr.
General Education Requirements: SS
Last Taught: Fall 2016, Fall 2015, Fall 2013, Fall 2005.
Current Offerings: http://uwm.edu/schedule

LINGUIS 450 General Phonetics and Phonetics Practicum
3 cr. Undergraduate/Graduate.
Study of linguistic phonetics, including articulatory physiology, acoustics,
and speech perception. Practice in production and transcription of a wide
variety of speech sounds. 3 hrs lec with practicum.
Prerequisites: jr st.
Last Taught: Spring 2018, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

LINGUIS 460 Introduction to Phonology
3 cr. Undergraduate/Graduate.
Basic properties of sounds, sound patterns, and sound processes of
spoken language.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Current Offerings: http://uwm.edu/schedule

LINGUIS 464 Introduction to Syntax
3 cr. Undergraduate/Graduate.
Study of word and sentence formation in languages. Practice in analysis
and argumentation using data from various languages.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

LINGUIS 466 Semantics
3 cr. Undergraduate/Graduate.
The study of meaning in language; its role in grammatical description.
Basic concepts used in semantic analysis and discussion of their place in
grammatical theory.
Prerequisites: jr st & Linguis 260(P) or 350(P) or Philos 211(P), or grad st
& cons instr.
Current Offerings: http://uwm.edu/schedule
LINGUIS 468 Language in its Various Forms:
3 cr. Undergraduate/Graduate.
Analysis and description of various language types. Topics may include language change, language development, dialectology, and language typology.
Prerequisites: jr st & Linguis 350(P), or grad st & cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 470 Historical/Comparative Linguistics
3 cr. Undergraduate/Graduate.
The study of language change; introduction to internal reconstruction and the comparative method; generative approaches to historical change.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 474 Language Typology and Language Universals
3 cr. Undergraduate/Graduate.
Comparison of phonetic, syntactic, and lexical patterns of different languages, with emphasis on deriving statements about properties of all languages or of significant subclasses of languages.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 476 Linguistic Theory
3 cr. Undergraduate/Graduate.
Survey of twentieth century American linguistic theories from traditionalism through American structuralism to generative grammar, including discussion of some current issues.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 489 Internship in Linguistics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of linguistics in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in linguis; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 490 Field Methods
3 cr. Undergraduate/Graduate.
Work with a native speaker of a foreign language. Gathering and collation of data. Evaluation of possible phonemic and grammatical analyses.
Prerequisites: jr st & Linguis 350(P); or grad st & cons instr.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l semester.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken with change in topic.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 520 Advanced Second Language Acquisition:
3 cr. Undergraduate/Graduate.
Readings, discussions, and analyses of current issues in second-language acquisition theory.
Prerequisites: jr st; Linguis 420(P) or equiv.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Spring 2015, Fall 2013.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 550 Phonetics II
3 cr. Undergraduate/Graduate.
Auditory phonetics; issues in speech production and speech acoustics; quantitative study of speech sounds in linguistic contexts; independent experimental research on topic selected by student.
Prerequisites: jr st; Linguis 450(370)(P) or cons instr.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 560 Advanced Phonology
3 cr. Undergraduate/Graduate.
Fundamental issues in generative phonology; emphasis on comparing alternative models of phonological description.
Prerequisites: jr st; Linguis 460(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 564 Advanced Syntax
3 cr. Undergraduate/Graduate.
Continuation of Linguis 464, with greater emphasis on the evaluation and justification of competing solutions and competing models of grammar.
Prerequisites: jr st & Linguis 464(P).
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 565 Introduction to Adult/University Level TESOL
3 cr. Undergraduate/Graduate.
Overview of the various approaches to teaching English as a second language (ESL) to adult/university-level learners.
Prerequisites: jr st; satisfaction of English Composition competency req.
Course Rules: Jointly-offered w/ & counts as repeat of English 565. Does not satisfy requirements in School of Educ.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

LINGUIS 566 Advanced Semantics
3 cr. Undergraduate/Graduate.
Readings, discussion, and analysis of current issues in formal semantics for natural language.
Prerequisites: jr st; Linguis 466(P) or equiv; or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)
LINGUIS 567 Materials for ESL Instruction
3 cr. Undergraduate/Graduate.
Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners.
Prerequisites: Jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 567 & Linguis 567 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 569 Practicum in Adult/University TESOL
3 cr. Undergraduate/Graduate.
A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program.
Prerequisites: Jr st; satisfaction of GER English Composition competency req; cons instr.
Course Rules: English 569 & Linguis 569 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 570 Issues in Bilingualism
3 cr. Undergraduate/Graduate.
Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints.
Prerequisites: Jr st.
Course Rules: Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

LINGUIS 590 Morphology
3 cr. Undergraduate/Graduate.
Introduction to morphology, which is the study of word formation in human language.
Prerequisites: Jr st & Linguis 350(P); or grad st & cons instr.
Course Rules: Counts as repeat of Linguis 763.
Current Offerings: http://uwm.edu/schedule

LINGUIS 699 Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Linguis faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept chair.
Prerequisites: Jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 12 cr max.
Current Offerings: http://uwm.edu/schedule

LINGUIS 708 Proseminar in Linguistics
3 cr. Graduate.
Presents a range of linguistic constructs, demonstrating through readings, problems, and exercises how these concepts can be used in the analysis of language.
Prerequisites: Grad st.
Course Rules: Linguis 708(701) & MALLT 708 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

LINGUIS 748 Oral Language, Cognition, and Literacy
3 cr. Graduate.
Psychological and linguistic bases of speaking, reading, and writing in children and adults from diverse populations. The importance of language and cognition for literacy development.
Prerequisites: Grad st; college-level course in language acquisition or reading or child development or linguistics or cons instr.
Course Rules: Ed Psych 748 & Linguis 748 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2011.
Current Offerings: http://uwm.edu/schedule

LINGUIS 750 General Phonetics and Phonetics Practicum
3 cr. Graduate.
Introduction to phonetics, the basics of speech production and speech acoustics.
Prerequisites: Grad st.
Course Rules: Not open for cr to students w/grad cr in LINGUIS 450.
Current Offerings: http://uwm.edu/schedule

LINGUIS 760 Research Methods in Linguistics and ESL
3 cr. Graduate.
Introduction to basic research methodology in linguistics and ESL.
Prerequisites: Grad st; cons instr.
Course Rules: English 760 & Linguis 760 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 761 Introduction to Phonology
3 cr. Graduate.
Introduction to the basic properties of sounds, sound patterns, and sound processes of spoken language.
Prerequisites: Grad st; Linguis 350(P) or equiv.
Course Rules: Counts as repeat of LINGUIS 460.
Current Offerings: http://uwm.edu/schedule

LINGUIS 763 Morphology
3 cr. Graduate.
A graduate-level introduction to morphological theory.
Prerequisites: Grad st; Linguis 460(P) & 464(P) or equiv.
Last Taught: Fall 2005.
Current Offerings: http://uwm.edu/schedule

LINGUIS 764 Introduction to Syntax
3 cr. Graduate.
Investigation of the syntax or sentence structure properties of human language.
Prerequisites: Grad st.
Course Rules: Not open for cr to students w/grad cr in LINGUIS 464.
Current Offerings: http://uwm.edu/schedule
LINGUIS 765 Pragmatics
3 cr. Graduate.
Investigation of selected topics in the relationship between linguistic expressions and those who use them.
Prerequisites: grad st; Linguistics 466(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

LINGUIS 766 Theory of Second Language Acquisition
3 cr. Graduate.
Introduction to theories of second language acquisition.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

LINGUIS 767 Methodologies and Approaches in Adult/University TESOL
3 cr. Graduate.
Designed for prospective ESL/EFL teachers. Graduate level introduction to the field of adult TESOL.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

LINGUIS 769 Topics in Linguistics:
3 cr. Graduate.
Advanced-level study of a topic relevant to linguistics; may be contemporary or historical.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 769 & Linguistics 769 are jointly offered; w/same topic, they count as repeats of one another w/same topic.
Current Offerings: http://uwm.edu/schedule

LINGUIS 789 Practicum in Teaching ESL to Adult Learners
1-6 cr. Graduate.
Field experience in teaching English as a second language to adult learners.
Prerequisites: grad st; English/Linguistics 567(P) or Linguistics 767(P); cons instr.
Course Rules: Open only to grad students in Linguistics specializing in ESL. Retakable to max 6 cr. English 789 & Linguistics 789 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 798 Internship in Linguistics
1-3 cr. Graduate.
Application of advanced principles of linguistics in an internship experience in a business, organizational, educational, political, governmental or other appropriate setting.
Prerequisites: grad st.
Course Rules: One cr earned for academic work based on minimum 40 hrs. in internship. Paper or project req’d.
Last Taught: Summer 2015.
Current Offerings: http://uwm.edu/schedule

LINGUIS 799 Independent Reading and Research for Master's Students
1-3 cr. Graduate.
Independent reading and/or research under the supervision of a Linguistics faculty member on a linguistics topic relating to the student’s area of interest.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

LINGUIS 801 Seminar in Syntax and Semantics:
3 cr. Graduate.
Advanced topics in the theory of syntax, including but not limited to, syntactic description, variation, and typology.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2015, Spring 2013.
Current Offerings: http://uwm.edu/schedule

LINGUIS 802 Seminar in Phonology and Phonetics:
3 cr. Graduate.
Advanced topics in phonological theory, including, but not limited to, phonological description, variation, and typology.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015, Spring 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

LINGUIS 803 Seminar in Language Acquisition:
3 cr. Graduate.
Theory of adult language acquisition, including, but not limited to, interpretation of learner errors, description of acquisition strategies, and analysis of learning sequences.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2015, Spring 2013.
Current Offerings: http://uwm.edu/schedule

LINGUIS 804 Seminar in Language Variation:
3 cr. Graduate.
Advanced topics in social dialects, including, but not limited to, language variation, social markers, and the concept of a standard language.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2013.
Current Offerings: http://uwm.edu/schedule

LINGUIS 805 Seminar in English Language:
3 cr. Graduate.
Advanced-level seminar addressing specific topics in English language, both contemporary and historical.
Prerequisites: grad st; English/Linguistics 400(P).
Course Rules: Retakable w/chg in topic to 9 cr max. English 805 & Linguistics 805 are jointly offered; w/same topic, they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

LINGUIS 806 Seminar in Linguistics:
3 cr. Graduate.
Advanced-level seminar in which students do in-depth research on a particular area of linguistics through readings, class discussion, and writing a research paper.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max. English 806 & Linguistics 806 are jointly offered; w/same topic, they count as repeats of one another.
Last Taught: Fall 2014, Fall 2013, Spring 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule
LINGUIS 888 Candidate for Degree
0 cr. Graduate.
Available for students who must meet minimum credit requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Spring 2016, Fall 2015, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

LINGUIS 999 Independent Reading for Doctoral Students
1-3 cr. Graduate.
Individual work directed by a member of the graduate faculty; for doctoral students unable to secure needed content in regular courses.
Prerequisites: grad st; cons instr
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

LINGUIS 990 Research in Linguistics
1-3 cr. Graduate.
Research and writing of the doctoral dissertation under the supervision of the major professor.
Prerequisites: grad st
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheryl Ajjirotu</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
<td>✅</td>
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</tr>
<tr>
<td>Roberta Corrigan</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
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</tr>
<tr>
<td>Garry W. Davis</td>
<td>Professor</td>
<td>PhD</td>
<td>Indiana University</td>
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<tr>
<td>Fred Eckman</td>
<td>Distinguished Professor Emeritus</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Nicholas Fleisher</td>
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<td>PhD</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Gregory Iverson</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<td>Lawrence Kuiper</td>
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<td>Michigan State University</td>
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<tr>
<td>Susan Lima</td>
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<td>University of Massachusetts-Amherst</td>
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<tr>
<td>Edith Moravcsik</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Hamid Ouali</td>
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<tr>
<td>Hanyong Park</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Indiana University</td>
<td></td>
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<tr>
<td>Rashmi Prasad</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Pennsylvania</td>
<td></td>
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</tr>
<tr>
<td>Sandra Pucci</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
<td></td>
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<tr>
<td>Anne Pyncha</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Gabriel Rei-Doval</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Santiago de Compostela</td>
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<tr>
<td>Jae Yung Song</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Brown University</td>
<td></td>
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</tr>
<tr>
<td>Tue Trinh</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
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<tr>
<td>Kathleen Wheatley</td>
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<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Jessica Wirth</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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</tr>
</tbody>
</table>

Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate

UWM’s TESOL certificate prepares students for a career teaching English to non-English speaking adults. TESOL is an internationally-recognized acronym that denotes the holder of the certificate has received specialized training in the methodologies of teaching English, second language acquisition, bilingualism, and multicultural awareness.

The use of English as a common language of communication has risen dramatically in the last few decades, and the demand for TESOL trained instructors is high in certain parts of the world. Asia, Central America, and South America are three particular hot spots where people have a strong desire learn English or improve their English language skills.

Students who love to travel often make a career out of traveling the globe, picking up jobs in various nations. Others stay closer to home and find similar positions in the U.S. teaching English to immigrants, visitors, foreign students, or others who have not learned English as their first language. TESOL is a dynamic profession that combines innovation and creativity with interactions in culturally-diverse communities.

The Adult/University-Level TESOL (Teaching English to Speakers of Other Languages) Graduate Certificate Program is designed to meet the needs of graduate non-degree students or graduate students concurrently enrolled in a UWM master’s or Ph.D. program. Requirements for this program are very similar to those for the undergraduate-level “Adult/University-Level TESOL Certificate Program” but is more rigorous and can
be applied (concurrently or subsequently) to the Master of Arts program in Linguistics.

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Eligibility and Admission**
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

**Application**
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.
- Submit the following materials to the TESOL Certificate Program Coordinator in the Department of Linguistics:
  - Adult/University-Level TESOL Graduate Certificate Program application form (available from the Linguistics Department office).
  - Transcripts of all college-level academic work, with evidence of a GPA of 2.75 or better.
  - A statement of purpose.
  - Two letters of recommendation from persons knowledgeable about the applicant's recent academic and/or work experience.
  - Applicants who are not native speakers of English should also submit TOEFL scores of at least 550 (paper-based test) or 79 (internet-based test), or at least 6.5 on the IELTS exam, and 45 on the TSE, or an equivalent means of demonstrating proficiency.

**Credits and Courses**
Students are required to complete the six courses (18 credits) plus teaching internship (3 credits) outlined below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINGUIS/MALLT 708</td>
<td>Proseminar in Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS/ENGLISH 565</td>
<td>Introduction to Adult/University Level TESOL</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 430</td>
<td>Language and Society</td>
<td>3</td>
</tr>
<tr>
<td>or ANTHRO 570</td>
<td>Issues in Bilingualism</td>
<td></td>
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</tbody>
</table>

**Electives**
Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 460</td>
<td>Introduction to Phonology</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 560</td>
<td>Advanced Phonology</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 564</td>
<td>Advanced Syntax</td>
<td></td>
</tr>
<tr>
<td>LINGUIS/ENGLISH 806</td>
<td>Seminar in Linguistics: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>LINGUIS/ED PSY 748</td>
<td>Oral Language, Cognition, and Literacy</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 789</td>
<td>Practicum in Teaching ESL to Adult Learners</td>
<td>1-6</td>
</tr>
</tbody>
</table>

**Total Credits** 19-24

**Transfer Credit**
No more than 6 credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program. Students who have completed any of the required courses for undergraduate credit must substitute other courses at the graduate level, selected in consultation with the certificate program coordinator to fulfill the credit requirements.

**Grade Point Average Requirement**
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**
Certificate program time limits shall be established as follows:
- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.
For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information
Current Students contact Associate Professor Sandra Pucci, pucci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/linguistics/tesol/

Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate

UWM’s TESOL certificate prepares students for a career teaching English to non-English speaking adults. TESOL is an internationally-recognized acronym that denotes the holder of the certificate has received specialized training in the methodologies of teaching English, second language acquisition, bilingualism, and multicultural awareness.

The use of English as a common language of communication has risen dramatically in the last few decades, and the demand for TESOL trained instructors is high in certain parts of the world. Asia, Central America, and South America are three particular hot spots where people have a strong desire learn English or improve their English language skills.

Students who love to travel often make a career out of traveling the globe, picking up jobs in various nations. Others stay closer to home and find similar positions in the U.S. teaching English to immigrants, visitors, foreign students, or others who have not learned English as their first language. TESOL is a dynamic profession that combines innovation and creativity with interactions in culturally-diverse communities.

Eligibility
The Adult/University-Level TESOL Undergraduate Certificate Program is designed to meet the needs of students who wish to teach English as a Second Language (ESL) to adults or university-level students abroad. The program is open to undergraduates with at least junior standing, to post-baccalaureate special students, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Graduate students or post-baccalaureate non-degree students should pursue instead the “Adult/University-Level TESOL Graduate Certificate.” Training in the graduate certificate program is more rigorous, and some credits earned can be transferred to the Linguistics Department MA program.

Undergraduate students concurrently completing a bachelor’s degree receive the certificate upon completion of their degree requirements; post-baccalaureate special students and non-degree students receive the certificate upon completion of the required coursework and internship.

Requirements
Admission
Students who wish to apply to the program should submit the following materials to the TESOL Certificate Program Coordinator in the Department of Linguistics:

1. Adult/University-Level TESOL Undergraduate Certificate Program application form (available from the TESOL Certificate Program Coordinator);
2. Transcripts of all college-level academic work, with evidence of a GPA of 2.500 or better;
3. A statement of purpose; and
4. Two letters of recommendation from persons knowledgeable about the applicant’s recent academic and/or work experience.

Applicants who are not native speakers of English also should submit scores of least 550 on the TOEFL exam and 45 on the TSE.

The teaching practicum is completed at one of the institutions affiliated with the certificate program. The site of the internship may be chosen by the student, but it must be approved by the certificate program staff. The student is expected to complete between 60 and 80 hours of supervised teaching over a period of a semester. Students who previously have taken any of the required courses while enrolled as non-degree undergraduate students or students in other undergraduate programs at UWM may transfer the credits earned into the certificate program, so long as the courses have been taken within the last five years. Students who have taken comparable undergraduate-level courses at other institutions may be allowed to transfer in up to 6 credits of coursework, upon approval of the certificate program coordinator.

There is a time limit of three years from initial enrollment for completion of the certificate.

Students are required to complete the six courses (18 credits) plus teaching internship (3 credits) outlined below. All credits must be completed with a GPA of 3.0 or better.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
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<tr>
<td>LINGUIS 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
<td>3</td>
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<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
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<tr>
<td>ENGLISH/LINGUIS 565</td>
<td>Introduction to Adult/University Level TESOL</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/LINGUIS 570 or LINGUIS 430</td>
<td>Issues in Bilingualism</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Language and Society</td>
<td></td>
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</tbody>
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Elective
Select one of the following: 3

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<td>Historical/Comparative Linguistics</td>
</tr>
<tr>
<td>LINGUIS 560</td>
<td>Advanced Phonology</td>
</tr>
</tbody>
</table>
LINGUIS 564  Advanced Syntax
Practicum
ENGLISH/LINGUIS 569  Practicum in Adult/University TESOL  3

Contact Information
Current Students contact Associate Professor Sandra Pucci, pucci@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/linguistics/tesol/

Linguistics, BA
Linguistics is the scientific study of language. Students of linguistics do not necessarily seek fluency in a second or third language. Instead, they study the components that make up any given language - the syntax, the grammar, the regional differences, the slang, the pronunciations, the symbols, the changes over time, how people learn a language, and more.

At UWM, Linguistics students can opt for a broad linguistics major which will touch on all aspects of language development and learning. Or, students can choose an applied linguistics major which will focus more on using the principles of linguistics in a business setting such as in the classroom to help students learn a second language, in a social service agency that deals with illiteracy, or at a software company working on search engine optimization terms.

Many students find that acquiring advanced fluency in a second or third language beyond their native tongue is helpful for understanding the commonalities and differences between languages. However, no additional foreign language is required beyond the standard requirement for Letters & Science students - four years in high school of the same language or four semesters in college of the same language.

Requirements
Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td></td>
<td>Oral and Written Communication</td>
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</tr>
<tr>
<td></td>
<td>Part A</td>
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</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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</tbody>
</table>

| Part B  | Course designated as OWC-B; may be completed through a major-specific course requirement |
|         | Quantitative Literacy                     |
|         | Part A                                    |
| Select one of the following:                  |
| MATH 103 | Contemporary Applications of Mathematics |
| MATH 105 | Introduction to College Algebra           |
| MATH 108 | Algebraic Literacy II                     |
| Or equivalent course                          |

| Part B  | Course designated as QL-B; may be completed through a major-specific course requirement |
|         | Arts                                       |
| Select 3 credits                               |
|         | Humanities                                  |
| Select 6 credits                               |
|         | Social Sciences                             |
| Select 6 credits                               |
|         | Natural Sciences                            |
| Select 6 credits (at least two courses including one lab) | 6 |
|         | UWM Foreign Language Requirement            |
| Complete Foreign Language Requirement through: |
| Two years (high school) of a single foreign language |
| Two semesters (college) of a single foreign language |
| Or equivalent                                    |

| UWM Cultural Diversity Requirement | One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement |

College of Letters & Science Requirements
I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
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</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways: <strong>1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. <strong>1</strong></td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td>Cultural Diversity</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation. <strong>2</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.
Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Linguistics Major Requirements

The undergraduate major in linguistics may be obtained by pursuing either the general major option or the applied major option. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The College also requires students to complete a research experience in their major. Students will complete this requirement in the context of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 450</td>
<td>General Phonetics and Phonetics Practicum</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 460</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 474</td>
<td>Language Typology and Language Universals</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 560</td>
<td>Advanced Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 564</td>
<td>Advanced Syntax</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Options
Select one of the following:

<table>
<thead>
<tr>
<th>General Linguistics Major Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 350</td>
</tr>
<tr>
<td>LINGUIS 420</td>
</tr>
<tr>
<td>LINGUIS 450</td>
</tr>
<tr>
<td>LINGUIS 460</td>
</tr>
<tr>
<td>LINGUIS 464</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applied Linguistics Major Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 350</td>
</tr>
<tr>
<td>LINGUIS 420</td>
</tr>
<tr>
<td>LINGUIS/ANTHRO 570</td>
</tr>
<tr>
<td>LINGUIS 450</td>
</tr>
<tr>
<td>LINGUIS 460</td>
</tr>
<tr>
<td>LINGUIS 464</td>
</tr>
</tbody>
</table>

Special Requirements
Select at least two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
<td>6</td>
</tr>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 432</td>
<td>Urban Dialects</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 440</td>
<td>Psycholinguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms:</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 565</td>
<td>Introduction to Adult/University Level TESOL</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 567</td>
<td>Materials for ESL Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 9 credits

Total Credits 30

1 Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.

Linguistics Major Approved Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 430</td>
<td>Language and Society</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 446</td>
<td>Semantics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms:</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 474</td>
<td>Language Typology and Language Universals</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 105</td>
<td>Introduction to Linguistic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 641</td>
<td>Seminar in Anthropology: (with linguistics subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 320</td>
<td>Nonverbal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 230</td>
<td>Introduction to Phonetics</td>
<td>4</td>
</tr>
</tbody>
</table>

1 Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.
COMDSIS 240  Normal Speech and Language Development  3
COMPSCI 132  Introduction to Computers and Programming  3
COMPSCI 423  Introduction to Natural Language Processing  3
COMPSCI 431  Programming Languages Concepts  3
ENGLISH 211  Aspects of the English Language  3
ENGLISH/LINGUIS 400  Introduction to English Linguistics  3
ENGLISH 402  Theories of Language and Literature: (with language focus)  3
ENGLISH 403  Survey of Modern English Grammar  3
FRENCH 392  Phonetics  3
GERMAN 451  Introduction to German Linguistics  3
GERMAN 671  Seminar on Phonetics  3
PHILOS 211  Elementary Logic  3
PHILOS 212  Modern Deductive Logic  3
PHILOS 511  Symbolic Logic  3
PHILOS 516  Language and Meaning  3
PHILOS 517  Special Problems in the Philosophy of Language and Linguistics  3
SPANISH 341  Introduction to Hispanic Linguistics  3
SPANISH 443  Spanish Phonetics and Phonology  3
SPANISH 444  Spanish Syntax and Morphology  3
SPANISH 446  Hispanic Sociolinguistics  3
SPANISH 541  History of the Spanish Language  3

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising/) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Assistant Professor Anne Pycha, pycha@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/linguistics/undergraduate/

Linguistics, MA

Related Certificates

- Adult/University-Level TESOL Graduate Certificate (http://uwm.edu/graduateschool/adult-university-level-tesol-certificate)

Overview

The Department of Linguistics offers master’s and doctoral degrees and a graduate certificate in Adult/University-Level Teaching English to Speakers of Other Languages (TESOL).

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.
Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major in linguistics or related field (e.g., languages, psychology, anthropology, philosophy).
2. Undergraduate grade point average of 3.0 (4.0 scale).
3. Three letters of recommendation to the Department’s Director of Graduate Studies from persons familiar with applicant’s academic ability and achievement.
4. A sample of academic writing.
5. Though not required, submission of scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) may enhance the application.

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. Applicants should contact the Linguistics Department office for additional information and deadlines.

Major Professor as Advisor
The student must have a Major Professor to advise and supervise the student’s work as specified in Graduate School regulations. The director of graduate studies serves as an initial advisor. It is recommended that the student have a permanent advisor by the end of the second semester of enrollment.

Credits and Courses
Students admitted to the master’s program earn the degree by completing a minimum of 30 credits of graduate coursework, submitting a final project, and passing an oral examination on the final project. Students demonstrate a capacity for doctoral work and wish to earn a PhD at UWM are advised to proceed as rapidly as possible to doctoral status. No more than 30 credits earned at the master’s level may be included in the 54 credits required for the PhD.

The MA in Linguistics requires 30 graduate credits, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 450</td>
<td>General Phonetics and Phonetics Practicum</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 460</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 466</td>
<td>Semantics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms: Historical/Comparative Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 470</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select 12 elective credits distributed among 400- to 800-level courses in linguistics and related fields as approved by the student’s major professor.

Total Credits 30

Students who completed any of the required courses as undergraduates will substitute another course selected in consultation with their major professor.

Final Project
A research paper or other project appropriate to the student’s professional goals, to be defended in an individualized oral examination.

- Final project. The project is a research paper on a topic chosen in consultation with the student’s advisor; for students specializing in Teaching ESL to Adult Learners, the project may take some other form as approved by the major professor.
- Oral examination. The oral examination, usually lasting an hour and a half, focuses on the final project but also covers other elements of the student’s program of study.

Regulations concerning final projects and oral examinations
1. Students should consult with their advisors before completing 24 credits in order to determine a final project. Ordinarily, this is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student’s skills in research, analysis and argumentation. For students specializing in Teaching ESL to Adult Learners, the project may consist of documentation of the outcome of a pedagogical investigation undertaken during the student’s internship. The project serves both as a concluding effort at the master’s level and as an indication of the student’s potential for doctoral study.
2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be Linguistics Department faculty members. The MA Examining Committee administers the final Oral Examination.
3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 30 credits at the master’s level is applicable to the PhD 54 credit requirement.
4. Students who express intent to go on for the PhD are evaluated by the MA Examining Committee regarding their qualifications for further graduate study at the doctoral level. The Committee Chair puts the Committee’s recommendation in writing and places it in the student’s academic file.
5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. Students must register for 1-3 credits when revising the final project after a failed examination; however, the additional credit(s) may not count toward the 30 credits required for the degree.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.
Linguistics, MA: Teaching English to Speakers of Other Languages

Related Certificates
- Adult/University-Level TESOL Graduate Certificate (http://uwm.edu/graduateschool/adult-university-level-tesol-certificate)

Overview
The Department of Linguistics offers master's and doctoral degrees and a graduate certificate in Adult/University-Level Teaching English to Speakers of Other Languages (TESOL).

Admission
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1. Undergraduate major in linguistics or related field (e.g., languages, psychology, anthropology, philosophy).
2. Undergraduate grade point average of 3.0 (4.0 scale).
3. Three letters of recommendation to the Department's Director of Graduate Studies from persons familiar with applicant's academic ability and achievement.
4. A sample of academic writing.
5. Though not required, submission of scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) may enhance the application.

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. Applicants should contact the Linguistics Department office for additional information and deadlines.

Major Professor as Advisor
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Credits and Courses
Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework, submitting a final project, and passing an oral examination on the final project. Students who demonstrate a capacity for doctoral work and wish to earn a PhD at UWM are advised to proceed as rapidly as possible to doctoral study. No more than 30 credits earned at the master's level may be included in the 54 credits required for the PhD.

The MA in Linguistics requires 30 graduate credits, including:

### Core Areas of Linguistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 415 or LINGUIS 420</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 450</td>
<td>General Phonetics and Phonetics Practicum</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 460</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 466</td>
<td>Semantics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 468 or LINGUIS 470</td>
<td>Language in its Various Forms: Historical/Comparative Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

### Electives
Select 12 elective credits distributed among 400- to 800-level courses in linguistics and related fields as approved by the student's major professor.

| Total Credits | 30 |

Students who completed any of the required courses as undergraduates will substitute another course selected in consultation with their major professor.

Final Project
A research paper or other project appropriate to the student's professional goals, to be defended in an individualized oral examination.

- Final project. The project is a research paper on a topic chosen in consultation with the student's advisor; for students specializing in Teaching ESL to Adult Learners, the project may take some other form as approved by the major professor.
- Oral examination. The oral examination, usually lasting an hour and a half, focuses on the final project but also covers other elements of the student's program of study.

Regulations concerning final projects and oral examinations

1. Students should consult with their advisors before completing 24 credits in order to determine a final project. Ordinarily, this is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, analysis and argumentation. For students specializing in Teaching ESL to Adult Learners, the project may consist of documentation of the outcome of a pedagogical investigation undertaken during the student's internship. The project serves both as a concluding effort at the master's level and as an indication of the student's potential for doctoral study.
2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be Linguistics Department faculty members. The MA Examining Committee administers the final Oral Examination.
3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 30 credits at the master's level is applicable to the PhD 54 credit requirement.
4. Students who express intent to go on for the PhD are evaluated by the MA Examining Committee regarding their qualifications for further graduate study at the doctoral level. The Committee Chair puts the Committee's recommendation in writing and places it in the student's academic file.
5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. Students must register for 1-3 credits when revising the final project after a failed examination; however, the additional credit(s) may not count toward the 30 credits required for the degree.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**TESOL Concentration Requirements**
Students may elect to complete a concentration in Teaching English to Speakers of Other Languages as part of their MA studies. The TESOL concentration requires that students complete the Linguistics, MA courses, and the TESOL Concentration courses as part of their electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINGUIS 415 or LINGUIS 420</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 450</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 460</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 466</td>
<td>Semantics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 468 or LINGUIS 470</td>
<td>Language in its Various Forms: Historical/Comparative Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**400- to 800-Level Electives**
Select 12 elective credits distributed among 400- to 800-level courses in linguistics and related fields as approved by the student's major professor.

**TESOL Concentration**
- LINGUIS/MALLT 708 Proseminar in Linguistics 3
- LINGUIS 410 Literacy, Grammar, and Methodologies in ESL Education 3
- ENGLISH/LINGUIS 565 Introduction to Adult/University Level TESOL 3
- ENGLISH/LINGUIS 569 Practicum in Adult/University TESOL 3
- LINGUIS 799 Independent Reading and Research for Master's Students (TESOL-related paper/project) 1-3

Total Credits 43-45

The TESOL concentration will be noted on the student's transcript.

**Linguistics, Minor**
Linguistics is the scientific study of language. Students of linguistics do not necessarily seek fluency in a second or third language. Instead, they study the components that make up any given language - the syntax, the grammar, the regional differences, the slang, the pronunciations, the symbols, the changes over time, how people learn a language, and more.

At UWM, Linguistics students can opt for a broad linguistics minor which will touch on all aspects of language development and learning. Or, students can choose an applied linguistics minor which will focus more on using the principles of linguistics in a business setting such as in the classroom to help students learn a second language, in a social service agency that deals with illiteracy, or at a software company working on search engine optimization terms.

Many students find that acquiring advanced fluency in a second or third language beyond their native tongue is helpful for understanding the commonalities and differences between languages. However, no additional foreign language is required beyond the standard requirement for Letters & Science majors: four years in high school of the same language or four semesters in college of the same language.

**Requirements**
Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including transfer work.

**General Linguistics Minor Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 430</td>
<td>Language and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- LINGUIS 415 First Language Acquisition 3
- LINGUIS 460 Introduction to Phonology 3
- LINGUIS 464 Introduction to Syntax 3
- LINGUIS 468 Language in its Various Forms: 3

| Electives             |                                            |         |
| Select 9 credits 1    |                                            | 9       |
| Total Credits         |                                            | 15      |

1 Coursework in linguistics and related areas, selected from the approved electives list (see above) in consultation with an advisor in the Linguistics program. Students are encouraged to focus their electives in an area closely aligned with the study of linguistics, including various foreign languages, English, anthropology, philosophy, computer science, and education, among others.

**Applied Linguistics Minor Option**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 430</td>
<td>Language and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/LINGUIS 570</td>
<td>Issues in Bilingualism</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- LINGUIS 415 First Language Acquisition 3
- LINGUIS 460 Introduction to Phonology 3
- LINGUIS 464 Introduction to Syntax 3
- LINGUIS 468 Language in its Various Forms: 3

| Electives             |                                            |         |
| Select 9 credits 1    |                                            | 9       |
| Total Credits         |                                            | 15      |
In addition, students whose native language is not English must submit scores on the Test of English as a Foreign Language (TOEFL), or the equivalent. A score of at least 587 (TOEFL) is normally necessary for admission. The minimum score for the computer based TOEFL is 240, or 95 for the internet-based test (iBT).

Submission of Graduate Record Examination (GRE) results (http://uwm.edu/graduateschool/admission/#gre), though not required, is encouraged.

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's work as specified in Graduate School regulations. The Director of Graduate Studies serves as an initial advisor.

**Credits and Courses**

The PhD program requires a minimum of 54 credits beyond the BA. The 54 credits are distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINGUIS 415</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 450</td>
<td>General Phonetics and Phonetics Practicum</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 460</td>
<td>Introduction to Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 464</td>
<td>Introduction to Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 466</td>
<td>Semantics</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms:</td>
<td>3</td>
</tr>
<tr>
<td>or LINGUIS 470</td>
<td>Historical/Comparative Linguistics</td>
<td></td>
</tr>
<tr>
<td>LINGUIS 550</td>
<td>Phonetics II</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 560</td>
<td>Advanced Phonology</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 564</td>
<td>Advanced Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 566</td>
<td>Advanced Semantics</td>
<td>3</td>
</tr>
<tr>
<td>Seminars and Independent Study</td>
<td>Select 12 credits in 800- to 900-level linguistics seminars and independent studies, at least 9 credits of which must be in seminars</td>
<td>12</td>
</tr>
<tr>
<td>Electives</td>
<td>Select 12 elective credits, selected with approval of the student's major professor</td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>54</td>
</tr>
</tbody>
</table>

**General Restrictions**

Doctoral students may not count more than 9 credits in independent study toward the degree without the approval of the Director of Graduate Studies. No more than 18 credits may be counted in courses taken outside the Department of Linguistics.

**Advising**

Students are required to consult periodically with their Major Professor. The Major Professor helps the student to define an area of special interest within the concentration for the preliminary examination. The Major Professor also assists the student in the selection of appropriate coursework and may chair the Preliminary Examination Committee.
Foreign Language Requirement
All PhD candidates are required to demonstrate proficiency (reading knowledge) in a language other than English. The choice of language, and the means of demonstrating proficiency, must be approved by the student’s Major Professor in consultation with the Director of Graduate Study.

Residence
The student must meet minimum Graduate School residence requirements.

Doctoral Preliminary Examination
The doctoral preliminary examination consists of an oral defense of a major research paper submitted by the student typically after completing 39 to 45 credits toward the PhD degree. Though the scope of the examination, which usually lasts two hours, is open-ended, its focus is on the submitted research paper, which itself is intended to demonstrate the breadth and depth of a student's knowledge and the ability to conduct advanced research in one or more areas of study. The successfully-defended research paper should lead naturally to timely preparation of the dissertation proposal.

Students cannot take the preliminary examination if they have any incomplete or unreported grades or a GPA less than 3.0. The exam must be finished within one semester after all coursework is completed, excluding summer sessions. Students may receive from the Director of Graduate Studies a one semester extension for additional coursework. Students who do not complete the exam within this time frame will be considered to have failed the exam. The exam may be retaken only once, after making appropriate revisions to the research paper. Students who fail the preliminary examination may not proceed to the dissertation. The exam must be passed within five years of initial enrollment in the doctoral program.

Dissertation
The dissertation topic, together with a comprehensive prospectus, must be approved by the student's doctoral committee in a dissertation proposal hearing that should be held not later than the semester immediately following the preliminary examination. The dissertation proposal is typically, albeit not necessarily, a refinement and extension of the research paper defended in the oral preliminary examination. Though no specific length requirements are imposed on the dissertation itself, the Department considers 200 pages to be reasonable and representative.

Dissertation Defense
The completed dissertation is subject to an oral defense, to be arranged by the Major Professor in coordination with the Director of Graduate Study according to Graduate School regulations. A copy of the dissertation is kept in the Department office.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.
MATHEMATICAL SCIENCES

The Department of Mathematical Sciences at the University of Wisconsin-Milwaukee is home to an active community of teachers, scholars, undergraduates, and graduate students. In addition to most traditional areas of Pure and Applied Mathematics, the department contains all UWM programs in Actuarial Science and Atmospheric Science.

The department offers Bachelor's, Master's, and Doctoral studies in all of these areas, in addition to several interdisciplinary programs. Established in 1963, the PhD in Mathematics is the original doctoral program at UWM, founded by Dr. Morris Marden (http://uwm.edu/math/graduate/resources/history-of-our-graduate-program/morris-mardens-biography).

Mathematics is the principal language of modern science and technology. In such diverse areas as physics, engineering, economics, computer science, and biology, much of the subject matter is presented in mathematical terms. In addition, mathematical techniques are now being used in many areas which formerly were non-mathematical; for example, history, political science, psychology, and medicine.

Some students are drawn to mathematics because of the beauty they find in its structure and logic, others because it allows a deeper understanding of an allied area of study.

Actuarial science is the mathematical analysis of problems in economics, finance, and insurance. It requires knowledge of statistics, probability, and interest theory and how they relate to financial issues.

Atmospheric science is the study of short-term weather and long-term climate, involving both applied activities such as weather forecasting and analysis and fundamental research. It uses advanced methods in statistics and numerical modeling.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should consult the School of Education section of this catalog.

Please also visit the departmental web page at http://uwm.edu/math/ and follow the links to the undergraduate program.

There are three curricular areas in the Department of Mathematical Sciences:

- Atmospheric Science (ATM SCI)
- Mathematics (MATH)
- Mathematical Statistics (MTHSTAT)

Undergraduate Studies - We offer three minors and five undergraduate degrees:

- Bachelor of Science Degrees: Mathematics; Atmospheric Science; Applied Mathematics and Computer Science (AMCS)
- Bachelor of Arts Degrees: Mathematics; Actuarial Science
- Minors: Mathematics; Actuarial Science; Atmospheric Science

Graduate Studies in Mathematical Sciences

The Department has a vibrant graduate program leading to both the Master of Science and Doctor of Philosophy degrees. In addition to the traditional areas within Mathematics and Statistics, our Department is home to U-WiMilwaukee’s academic programs in both Actuarial Science and Atmospheric Sciences. The department also offers a newly established dual degree in mathematics with Fachhochschule Aachen (Aachen University of Applied Sciences) in Germany. Students may prepare for careers in teaching at the secondary or college level and for careers in research in the academic, industrial, government, or business communities.

See below for detailed program information and requirements.

- Actuarial Science, BA (p. 1605)
- Actuarial Science, Minor (p. 1608)
- Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematics) (p. 1609)
- Atmospheric Science, BS (p. 1611)
- Atmospheric Science, Minor (p. 1615)
- Atmospheric Science, MS (p. 1615)
- Atmospheric Science, PhD (p. 1616)
- Mathematics, BA (p. 1618)
- Mathematics, BS (p. 1622)
- Mathematics, Minor (p. 1626)
- Mathematics, MS (p. 1627)
- Mathematics, MS: Actuarial Science (p. 1628)
- Mathematics, MS: Foundations of Advanced Studies (p. 1629)
- Mathematics, MS: Industrial Mathematics (p. 1630)
- Mathematics, MS: Statistics (p. 1632)
- Mathematics, PhD (p. 1634)

Atmospheric Sciences Courses

ATM SCI 100 Survey of Meteorology
3 cr. Undergraduate.
Concepts and principles of meteorology; cyclones, fronts, thunderstorms, tornadoes, air pollution, and climate. Interpretation of weather maps, charts, and forecasts. 2 hrs lec; 2 hrs lab-dis.
Prerequisites: none.
Course Rules: Counts as repeat of 3 cr Atm Sci 100 taken for 4 cr.
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ATM SCI 106 Principles and Forecasting of the Weather
3 cr. Undergraduate.
What makes the weather, general circulation of the atmosphere, analysis of meteorological data and their use in predicting the weather.
Prerequisites: none.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule
ATM SCI 108 Rain and Snow
3 cr. Undergraduate.
Study of precipitation properties and processes in the atmosphere. Structure of precipitating systems ranging from small to large scale. Prerequisites: none.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

ATM SCI 109 Thunderstorms, Tornadoes and Hurricanes
3 cr. Undergraduate.
The study of basic processes that lead to dry and moist convection. Characteristic atmospheric structure and cloud microphysical processes that produce thunderstorms, tornadoes and hurricanes. Prerequisites: none.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

ATM SCI 110 The Origin, Composition, and Structure of the Planetary Atmospheres
3 cr. Undergraduate.
Origin of the solar system, its planets, and planetary atmospheres. Prerequisites: none.
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ATM SCI 194 First-Year Seminar
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered. Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ATM SCI 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair. Prerequisites: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Last Taught: Fall 2013, Spring 2013, Spring 2006, Fall 2005.
Current Offerings: http://uwm.edu/schedule

ATM SCI 240 Introduction to Meteorology
3 cr. Undergraduate.
Quantitative approach to understanding fundamental concepts in meteorology. Radiation, heat balance of the atmosphere, thermodynamics, horizontal motion, general circulation, atmospheric observations, clouds, weather map analysis. Prerequisites: Physics 209(P) & 214(P); Math 232(C).
Course Rules: Not open for cr to students with Atm Sci 201.
Current Offerings: http://uwm.edu/schedule

ATM SCI 241 Advanced Introduction to Meteorology
1-3 cr. Undergraduate.
Hydrometeorology; radiation, energy balance; meteorological processes; climate; and atmospheric observations. Prerequisites: Physics 209(P); Math 232(C).
Course Rules: Not open for cr to students with Atm Sci 201.
Current Offerings: http://uwm.edu/schedule

ATM SCI 249 Internship in Atmospheric Sciences, Lower Division
1-6 cr. Undergraduate.
Application of basic knowledge of Atmospheric Sciences in business, organizational, educational, political or other appropriate setting. Prerequisites: soph st.; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Last Taught: Spring 2015, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ATM SCI 297 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem. Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Fall 1994, Fall 1992, Fall 1990.
Current Offerings: http://uwm.edu/schedule

ATM SCI 299 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

ATM SCI 300 Air-Pollution Meteorology
3 cr. Undergraduate/Graduate.
Pollutant sources and sinks, fundamental pollutant chemistry, monitoring techniques, averaging boundary layers and turbulence, diffusion theories, diffusion models, regional and global-scale pollution problems. Prerequisites: Atm Sci 201(P); Chem 102(P); stats course recom.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ATM SCI 301 Dynamic Meteorology I
3 cr. Undergraduate/Graduate.
The role of dynamics in atmospheric physics; equations of motion; symmetric circulation models; gravity waves; Rossby waves, quasi-geostrophy; introduction to instability of atmospheric flows. Prerequisites: jr st; Atm Sci 240(P); Math 233(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ATM SCI 302 Dynamic Meteorology II
3 cr. Undergraduate/Graduate.
The role of dynamics in atmospheric physics; equations of motion; symmetric circulation models; gravity waves; Rossby waves, quasi-geostrophy; introduction to instability of atmospheric flows. Prerequisites: jr st; Atm Sci 240(P); Math 233(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ATM SCI 303 Advanced Dynamics
3 cr. Undergraduate/Graduate.
Momentum equations of motion; hydrostatic approximation; dynamics of gravity waves; geostrophic wind; Rossby waves; quasigeostrophic approximation; atmospheric stability and instability. Prerequisites: jr st; Atm Sci 240(P); Math 232(C).
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Last Taught: Fall 2015, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ATM SCI 304 Advanced Dynamics
3 cr. Undergraduate/Graduate.
Momentum equations of motion; hydrostatic approximation; dynamics of gravity waves; geostrophic wind; Rossby waves; quasigeostrophic approximation; atmospheric stability and instability. Prerequisites: jr st; Atm Sci 240(P); Math 232(C).
Course Rules: Not open for cr to students with Atm Sci 201.
Last Taught: Fall 2015, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ATM SCI 320 Advanced Meteorology
3 cr. Undergraduate.
Use of fundamental laws to analyze and solve meteorological problems; radiation, energy balance; clouds and their physical and energy relations. Prerequisites: Physics 209(P); Math 232(C).
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ATM SCI 330 Air-Pollution Meteorology
3 cr. Undergraduate/Graduate.
Pollutant sources and sinks, fundamental pollutant chemistry, monitoring techniques, averaging boundary layers and turbulence, diffusion theories, diffusion models, regional and global-scale pollution problems. Prerequisites: Atm Sci 240(P); Chem 102(P); stats course recom.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ATM SCI 340 Atmospheric Thermodynamics
3 cr. Undergraduate/Graduate.
Thermodynamics of the atmosphere; radiation, energy balance; clouds and their physical and energy relations. Prerequisites: Jr st; Math 232(P); Physics 209(P).
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ATM SCI 345 Advanced Meteorology
3 cr. Undergraduate.
Momentum equations of motion; hydrostatic approximation; dynamics of gravity waves; geostrophic wind; Rossby waves; quasigeostrophic approximation; atmospheric stability and instability. Prerequisites: jr st; Atm Sci 240(P); Math 233(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ATM SCI 350 Atmospheric Thermodynamics
3 cr. Undergraduate/Graduate.
Radiant energy, sensible heat, and atmospheric thermodynamics; the gas laws; hydrostatic and psychrometric equations; dry and moist convection; clouds and their physical and energy relations. Optional field exercise. Prerequisites: Jr st; Physics 210(P); Math 232(P); Atm Sci 240(P).
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ATM SCI 351 Dynamic Meteorology I
3 cr. Undergraduate/Graduate.
The role of dynamics in atmospheric physics; equations of motion; symmetric circulation models; gravity waves; Rossby waves, quasi-geostrophy; introduction to instability of atmospheric flows. Prerequisites: Jr st; Atm Sci 240(P); Math 233(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule
ATM SCI 352 Dynamic Meteorology II
3 cr. Undergraduate/Graduate.
Circulation, vorticity, potential vorticity, shallow water equations: Poincare, Kelvin, and Rossby waves, energy and enstrophy, quasi-geostrophy for a stratified atmosphere; barotropic and baroclinic instability.
Prerequisites: jr st; Atm Sci 351(P); Math 234(P).
Current Offerings: http://uwm.edu/schedule

ATM SCI 360 Synoptic Meteorology I
4 cr. Undergraduate/Graduate.
Fundamental principles; synoptic-scale structure and dynamics; equivalent barotropic model; vertical motions; introduction to and application of quasi-geostrophic theory.
Prerequisites: jr st; Atm Sci 360(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ATM SCI 361 Synoptic Meteorology II
4 cr. Undergraduate/Graduate.
Extension of quasi-geostrophic theory to Q-vectors; isentropic potential vorticity applied to mid-latitude weather systems; fronts and jets.
Prerequisites: jr st; Atm Sci 360(P).
Current Offerings: http://uwm.edu/schedule

ATM SCI 381 Honors Seminar
3 cr. Undergraduate.
Selected topics.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2007, Fall 1990, Fall 1989.
Current Offerings: http://uwm.edu/schedule

ATM SCI 405 Atmospheric Science for in-Service Teachers:
1-3 cr. Undergraduate/Graduate.
Basic, advanced or new topics in atmospheric sciences for in-service teachers.
Prerequisites: in-service teacher; add'l prereqs depending on topic.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

ATM SCI 460 Mesoscale Circulations
3 cr. Undergraduate/Graduate.
Theory, analysis and forecasting of mesoscale flows, including convective systems, polar lows, terrain and surface-forced flows, jet streams and hurricanes.
Prerequisites: jr st; Atm Sci 360(R) or cons instr.
Last Taught: Spring 2017, Spring 2015, Fall 2012, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ATM SCI 464 Physical Meteorology: Cloud Physics
3 cr. Undergraduate/Graduate.
Formation of cloud droplets, droplet growth by condensation, formation of ice crystals, precipitation processes, weather radars, cloud models.
Prerequisites: jr st; Physics 210(P); Math 232(P); Atm Sci 350(P).
Current Offerings: http://uwm.edu/schedule

ATM SCI 470 Tropical Meteorology
3 cr. Undergraduate/Graduate.
Prerequisites: Atm Sci 351(P) or 360(P).
Current Offerings: http://uwm.edu/schedule

ATM SCI 480 The General Circulation and Climate Dynamics
3 cr. Undergraduate/Graduate.
Historical overview, the zonally symmetric circulation, momentum, heat and water budgets, stationary waves, the El Nino Southern oscillation, global warming, interpentadal variability in the North Atlantic.
Prerequisites: jr st; Atm Sci 351(P).
Current Offerings: http://uwm.edu/schedule

ATM SCI 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

ATM SCI 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ATM SCI 500 Statistical Methods in Atmospheric Sciences
3 cr. Undergraduate/Graduate.
Mathematical and statistical tools applicable to the investigation of atmospheric problems; the nature and treatment of atmospheric data.
Prerequisites: jr st; Atm Sci 240(P) or 350(P), & Math 232(P) or cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ATM SCI 505 Micrometeorology
3 cr. Undergraduate/Graduate.
Surface energy budget; radiation balance and heat transfer; boundary-layer profiles of wind, temperature and moisture; turbulence and boundary-layer fluxes; evapotranspiration; special topics.
Prerequisites: jr st; Atm Sci 351(P) & 330(P).
Last Taught: Fall 2016, Fall 2014, Fall 2012, Spring 2010.
Current Offerings: http://uwm.edu/schedule

ATM SCI 511 Seminar in Atmospheric Radiation and Remote Sensing
3 cr. Undergraduate/Graduate.
Basic laws of radiation, absorption and scattering, weather radar, retrieval of soundings, remote sensing and climate, weather satellites.
Prerequisites: jr st; Math 232(P); Atm Sci 350(P) & Physics 210(P).
Current Offerings: http://uwm.edu/schedule
ATM SCI 520 Advanced Dynamic Meteorology
3 cr. Undergraduate/Graduate.
Properties of atmospheric sound, gravity, Rossby waves. Baroclinic instability, cyclogenesis, frontalogenesis, and the general circulation. Introduction to numerical prediction.
Prerequisites: jr st; Math 234(P), Atm Sci 350(P) & 351(P) or equiv.
Current Offerings: http://uwm.edu/schedule

ATM SCI 599 Capstone Experience
1 cr. Undergraduate.
Student writes a paper under supervision of an advisor on an approved topic not covered in the student's regular course work.
Prerequisites: sr st; cons instr.
Course Rules: May be retaken w/chg in topic to 2 cr max.
Current Offerings: http://uwm.edu/schedule

ATM SCI 690 Seminar in Atmospheric Sciences: Intensive topical studies of currently active problem areas.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max. Satisfies L&S Seminar req.
Current Offerings: http://uwm.edu/schedule

ATM SCI 695 Internship in Atmospheric Sciences, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of atmospheric sciences in a business, organizational, educational, political or other appropriate setting.
Prerequisites: jr st; 300-level or above course in atm sci; 3.0 gpa in the major; cons supervising faculty.
Course Rules: One cr earned for 40 hrs work. May be retaken to 6 cr max.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ATM SCI 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Independent meteorological study.
Prerequisites: jr st, 2.5 gpa, & writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 3 cr max.
Current Offerings: http://uwm.edu/schedule

ATM SCI 705 Air Pollution Modeling
3 cr. Graduate.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ATM SCI 711 Cloud Dynamics
3 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

ATM SCI 725 Remote Sensing of the Environment
3 cr. Graduate.
Remote sensing technology, data processing, and analysis in meteorology, with application to oceanography and geology. Radar and acoustic sounding. Erts, sms/goes, thermal scanner, conventional weather satellites.
Prerequisites: grad st in Physics, Math, Geog, Geo Sci, Engr, or Atm Sci.
Current Offerings: http://uwm.edu/schedule

ATM SCI 750 Nonlinear Time Series Analysis
3 cr. Graduate.
Phase space reconstruction; singular spectrum analysis; prediction; dimension estimation; application of nonlinear time series analysis techniques to selected data sets.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

ATM SCI 760 Advanced Cloud, Aerosol & Precipitation Principles, Processes & Interactions
4 cr. Graduate.
(3 hr lc, 2 hr la). Theoretical & experimental look at cloud & precipitation formation, interaction & dissipation microphysics & chemistry aerosol physics & chemistry & their application.
Prerequisites: grad st; Atm Sci 464(C) or cons instr.
Current Offerings: http://uwm.edu/schedule

ATM SCI 761 Advanced Synoptic/Mesoscale Meteorology
3 cr. Graduate.
Advanced analysis techniques for synoptic/mesoscale diagnoses, case studies of relevant circulation systems; role of planetary, synoptic, and mesoscale flows in system development.
Prerequisites: grad st; cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ATM SCI 788 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

ATM SCI 943 Seminar: Hydrology
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
Mathematical Sciences Courses

MATH 90 Basic Mathematics
0 cr. Undergraduate.
Arithmetic operations involving whole numbers, integers, positive and negative rational numbers; decimals, percents; ratio, proportion; radicals; descriptive statistics; units of measure; geometry; introduction to algebra.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Not open to students eligible for math courses that carry graduation credit.
Current Offerings: http://uwm.edu/schedule

MATH 92 Mathematical Literacy for College Students I
0 cr. Undergraduate.
Introduction to numeracy, proportional reasoning, algebraic reasoning, and functions. Emphasis on developing conceptual and procedural tools that support the use of key mathematical concepts in context.
Prerequisites: none.
Course Rules: Fee for 3 cr assessed; counts as 3 cr toward cr load for Financial Aid & enrollment verification. Not recommended for students planning to take Calculus or Chem 100.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 92 Foundations of Elementary Mathematics
0 cr. Undergraduate.
Arithmetic, geometry, and beginning algebra; develops mathematical reasoning, problem solving, and facility with basic mathematical objects and their relationships. Individualized instruction via adaptive learning software.
Prerequisites: none.
Course Rules: Fee for 6 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Math 94 counts as repeat of Math 90 & 95.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 94 Foundations of Elementary Mathematics
0 cr. Undergraduate.
Arithmetic, geometry, and beginning algebra; develops mathematical reasoning, problem solving, and facility with basic mathematical objects and their relationships. Individualized instruction via adaptive learning software.
Prerequisites: none.
Course Rules: Fee for 6 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Math 94 counts as repeat of Math 90 & 95.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 95 Essentials of Algebra
0 cr. Undergraduate.
Number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring, rational expressions; coordinate geometry; linear systems; quadratic equations.
Prerequisites: math placement level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in Math 090; or (c) grade of D in Math 094.
Course Rules: Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 98 Algebraic Literacy I
0 cr. Undergraduate.
Arithmetic number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring, modeling; coordinate geometry; linear systems; quadratic equations. Fee for 3 cr assessed; counts as 3 cr toward credit load for Fin Aid & enrollment verification only.
Prerequisites: math placement level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in Math 090; or (c) grade of D in Math 094.
Current Offerings: http://uwm.edu/schedule

MATH 102 Mathematical Literacy for College Students II
3 cr. Undergraduate.
Continuation of Math 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions.
Prerequisites: Grade of C or better in Math 92(P) or (C).
General Education Requirements: MTH
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 103 Contemporary Applications of Mathematics
3 cr. Undergraduate.
Logical inference, probability and statistical inference, geometric growth, with selected topics such as linear programming, patterns, binary codes.
Prerequisites: ACT math subscore of 18 or higher or Math Placement Level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) Grade of C or better in Math 090; or (c) Grade of D in Math 094.
Course Rules: Not recom for students planning to take Calculus or Chem 100.
General Education Requirements: MTH
Current Offerings: http://uwm.edu/schedule
MATH 105 Introduction to College Algebra
3 cr. Undergraduate.
Algebraic techniques with polynomials, rational expressions, equations and inequalities, exponential and logarithmic functions, rational exponents, systems of linear equations.
Prerequisites: Math Placement Level 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in Math 094, 095, or 098; or (c) ACT math subscore of 24 or higher.
Course Rules: Not open for cr to students who have cr in Math 108(ER).
General Education Requirements: MTH
Current Offerings: http://uwm.edu/schedule

MATH 108 Algebraic Literacy II
3 cr. Undergraduate.
Continuation of Math 98 in polynomials, equations, and inequalities; exponential, logarithmic, and periodic functions; rational expressions and exponents; and systems of linear equations.
Prerequisites: C or better Math 98.
Course Rules: Not open for credit for students who have cr in Math 105(ER).
General Education Requirements: MTH
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 111 Introduction to Logic - Critical Reasoning
3 cr. Undergraduate.
Students learn a broad variety of fundamental logical methods - techniques used to identify, analyze, model, evaluate, and criticize different types of real-world reasoning.
Prerequisites: ACT math subscore of 18 or higher, or Math Placement Level at least 20, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in Math 090; or (c) grade of D in Math 094.
Course Rules: Jointly offered w/ Philos 111; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

MATH 115 Precalculus
4 cr. Undergraduate.
Essential topics from college algebra and trigonometry for students intending to enroll in calculus.
Prerequisites: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in Math 105, 108, or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
Course Rules: Repeats 2 cr of Math 116 & 2 cr of Math 117.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 116 College Algebra
3 cr. Undergraduate.
Prerequisites: Math Placement Level 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in Math 094, 095, or 098; (c) ACT math subscore of 24 or higher.
Course Rules: 2 cr may be used to repeat 2 cr of Math 115.
Current Offerings: http://uwm.edu/schedule

MATH 117 Trigonometry
2 cr. Undergraduate.
Trigonometric functions; graphs, identities, equations, inequalities; inverse trigonometric functions; solutions of triangles with applications; complex numbers; polar coordinates.
Prerequisites: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in Math 105, 108, or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
Course Rules: Repeats 2 cr of Math 115.
Current Offerings: http://uwm.edu/schedule

MATH 175 Mathematical Explorations for Elementary Teachers I
3 cr. Undergraduate.
Theory of arithmetic of whole numbers, fractions, and decimals. Introduction to algebra, estimation and problem-solving strategies.
Prerequisites: Registration in elementary, early childhood, or exceptional educ curriculum; either a grade of C or better in Math 102 or 103, or Math Placement Level at least 20, which is earned by any of the following: (a) Level 20 or 26 on Math Placement Test; (b) Grade of C or better in Math 094, 095, or 098; (c) ACT math subscore of 24 or higher.
General Education Requirements: MTH
Last Taught: Spring 2018, Spring 2017, Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 176 Mathematical Explorations for Elementary Teachers II
3 cr. Undergraduate.
A continuation of Math 175 in geometry, statistics, and probability. Grading system is S or U only. Students without Math 103, 106, or 175 may not register.
Prerequisites: grade of C or better in Math 175(P).
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 194 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule
MATH 199 Independent Study
1-3 cr. Undergraduate.
Regularly offered courses may not be taken as Independent Study.
Prerequisites: 2.5 gpa in all previous math courses; writ cons instr; dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MATH 205 Introductory Finite Mathematics
3 cr. Undergraduate.
Elements of mathematical logic, structures in sets; partitions and counting; probability theory, stochastic processes.
Prerequisites: math placement level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in Math 105, 108, or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
General Education Requirements: QLB, NS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 211 Survey in Calculus and Analytic Geometry
4 cr. Undergraduate.
A one-semester survey with applications to business administration, economics, and non-physical sciences. Topics include coordinate systems, equations of curves, limits, differentiation, integration, applications.
Prerequisites: Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in Math 105, 108, or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.
Course Rules: May not be used as a prereq for Math 232. No cr for students with cr in Math 213, 221, or 231.
General Education Requirements: QLB, NS
Current Offerings: http://uwm.edu/schedule

MATH 213 Calculus with Life Sciences Applications
4 cr. Undergraduate.
Limits, derivatives, and graphs of algebraic, trigonometric, exponential, and logarithmic functions; antiderivatives, the definite integral, and the fundamental theorem of calculus, with applications.
Prerequisites: Math Placement Level 40, which is earned by any of the following: (a) Level 40 on Math Placement Test; (b) grade of C or better in Math 115; (c) grade of C or better in both Math 116 and Math 117; (d) grade of C or better in both Math 211 and Math 117; (e) grade of C or better in Math 116 and Level 36 on Math Placement Test; (f) grade of C or better in Math 211 and Level 36 on Math Placement Test; (g) grade of C or better in Math 117 and Level 35 on Math Placement Test; or (h) score of 61 or higher on the CLEP Precalculus Exam.
Course Rules: No cr for students with cr in Math 221 or 231.
General Education Requirements: NS, QLB
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

MATH 215 Business Calculus
4 cr. Undergraduate.
Continuation of Math 211. Applications of differentiation, integration; infinite sequences and series; parametric equations, conic sections, and polar coordinates.
Prerequisites: grade of C or better in Math 213(P) or B or better in Math 232(P);
Cons instr or Honors College Director; Math Placement Level 45, earned by any of: (a) Level 45 Math Placement Test; (b) Level 45 Math Placement Test & ACT math subscore 30 or higher; (c) score of 4 or 5 on AP AB calculus exam; (d) score of 3 or higher on AP BC calculus exam; (e) score of 5 or higher on IB Mathematics HL; (f) grade of A- or better in Math 116 & 117; (g) grade of A- or better in Math 115.
Course Rules: Max 6 cr in combination of Math 221 & 222 may count toward Honors College requirements.
General Education Requirements: QLB, NS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATH 221 Honors Calculus I
5 cr. Undergraduate.
Calculus of functions of one and several variables; sequences, series, differentiation, integration; introduction to differential equations; vectors and vector functions; applications.
Prerequisites: cons instr or Honors College Director; Math Placement Level 45, earned by any of: (a) Level 45 Math Placement Test; (b) Level 40 Math Placement Test & ACT math subscore 30 or higher; (c) score of 4 or 5 on AP AB calculus exam; (d) score of 3 or higher on AP BC calculus exam; (e) score of 5 or higher on IB Mathematics HL; (f) grade of A- or better in Math 116 & 117; (g) grade of A- or better in Math 115.
Course Rules: Max 6 cr in combination of Math 221 & 222 may count toward Honors College requirements.
General Education Requirements: QLB, NS
Current Offerings: http://uwm.edu/schedule

MATH 222 Honors Calculus II
5 cr. Undergraduate.
Continuation of Math 221.
Prerequisites: C or better in Math 221(P) or B or better in Math 232(P); cons instr.
Course Rules: Max of 6 cr in combination of Math 221 & 222 may count toward Honors College reqs.
Current Offerings: http://uwm.edu/schedule

MATH 231 Calculus and Analytic Geometry I
4 cr. Undergraduate.
Limits, derivatives, and graphs of algebraic, trigonometric, exponential, and logarithmic functions; antiderivatives, the definite integral, and the fundamental theorem of calculus, with applications.
Prerequisites: Math Placement Level 40, which is earned by any of the following: (a) Level 40 on Math Placement Test; (b) grade of C or better in Math 115; (c) grade of C or better in both Math 116 and Math 117; (d) grade of C or better in both Math 211 and Math 117; (e) grade of C or better in Math 116 and Level 36 on Math Placement Test; (f) grade of C or better in Math 211 and Level 36 on Math Placement Test; (g) grade of C or better in Math 117 and Level 35 on Math Placement Test; or (h) score of 61 or higher on the CLEP Precalculus Exam.
Course Rules: No cr for students with cr in Math 213.
General Education Requirements: NS, QLB
Current Offerings: http://uwm.edu/schedule

MATH 232 Calculus and Analytic Geometry II
4 cr. Undergraduate.
Continuation of Math 231. Applications of integration, techniques of integration; infinite sequences and series; parametric equations, conic sections, and polar coordinates.
Prerequisites: grade of C or better in Math 231(P) or grade of B or better in Math 213(P).
Current Offerings: http://uwm.edu/schedule
MATH 233 Calculus and Analytic Geometry III
4 cr. Undergraduate.
Continuation of Math 232. Three-dimensional analytic geometry and vectors; partial derivatives; multiple integrals; vector calculus, with applications.
Prerequisites: grade of C or better in Math 232(P).
Course Rules: Counts as repeat of Math 229.
Current Offerings: http://uwm.edu/schedule

MATH 234 Linear Algebra and Differential Equations
4 cr. Undergraduate.
Elementary differential equations. Vectors; matrices; linear transformations; quadratic forms; eigenvalues; applications.
Prerequisites: grade of C or better in Math 232(P).
Current Offerings: http://uwm.edu/schedule

MATH 240 Matrices and Applications
3 cr. Undergraduate.
Vectors, vector spaces, systems of linear equations, matrices, determinants, linear transformations, diagonalization, eigenvalues, eigenvectors; selected topics from quadratic forms, difference equations, numerical methods, and applications.
Prerequisites: Grade at least C in a Math or MthStat course numbered 200 or higher OR Math Placement Level 40, earned by any of: Level 40 Math Placement Test; grade at least C in Math 115; grade at least C in Math 116 & 117; grade at least C in Math 211 & 117; grade at least C in Math 116 & Level 36 Math Placement Test; grade at least C in Math 211 & Level 36 Math Placement Test; grade at least C in Math 117 & Level 35 Math Placement Test; at least 61 on CLEP Precalculus exam.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 276 Algebraic Structures for Elementary Education Majors
3 cr. Undergraduate.
Topics for K-8 teachers. Basic patterns and rules that govern number systems, geometric transformations, and manipulation of algebraic expressions.
Prerequisites: grade of C or better in Math 175(P) or cons instr.
Course Rules: Counts as repeat of Math 299 w/same topic.
Current Offerings: http://uwm.edu/schedule

MATH 277 Geometry for Elementary Education Majors
3 cr. Undergraduate.
Topics for K-8 teachers. Geometry as measuring tool-congruence, similarity, area, volume, and coordinates; geometry as axiomatic system-definitions, conjectures, proofs, counterexamples; rigid motions, symmetry.
Prerequisites: grade of C or better in Math 176(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATH 278 Discrete Probability and Statistics for Elementary Education Majors
3 cr. Undergraduate.
Random experiments; histograms; sample spaces; equally likely outcomes for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; max likelihood estimation & inference.
Prerequisites: grade of C or better in Math 176(P) or cons instr.
Course Rules: Math 278 and MthStat 278 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATH 290 Topics in Mathematics:
3 cr. Undergraduate.
Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: satisfaction of Quantitative Literacy Part A GER.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MATH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

MATH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
MATH 305 Introduction to Mathematical and Computational Modeling
3 cr. Undergraduate/Graduate.
Construction and analysis of discrete and continuous mathematical models in applied, natural, and social sciences. Elements of programming, simulations, case studies from scientific literature.
Prerequisites: jr st; grade of C or better in Math 211(P) & one addl 200-level or higher Math or MthStat course, or grade of B or better in Math 213(P), or grade of C or better in Math 231(P), or cons instr.
Course Rules: Counts as repeat of Math 690(675) w/topic Adv Math Models with Apps.
Current Offerings: http://uwm.edu/schedule

MATH 311 Theory of Interest
4 cr. Undergraduate.
Prerequisites: grade of C or better in Math 232(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 313 Linear Programming and Optimization
3 cr. Undergraduate/Graduate.
Primal and dual formulations of linear programming problems; simplex and related methods of solution; algorithms for transportation; optimization.
Prerequisites: jr st; grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.
Last Taught: Fall 2016, Fall 2014, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

MATH 315 Mathematical Programming and Optimization
3 cr. Undergraduate/Graduate.
Introduction to operations research. Network analysis; integer programming; game theory; nonlinear programming; dynamic programming.
Prerequisites: jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in either Math 211(P) or 233(P); or cons instr; or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 318 Topics in Discrete Mathematics
3 cr. Undergraduate.
Number theory topics related to cryptography; discrete structures including graphs, partial orders, Latin squares and block designs; advanced counting techniques.
Prerequisites: a grade of C or better in CompSci 317(P) or Math 341(P).
Course Rules: Jointly offered with & count as repeat of CompSci 318.
Current Offerings: http://uwm.edu/schedule

MATH 320 Introduction to Differential Equations
3 cr. Undergraduate/Graduate.
Elementary types and systems of differential equations, series solutions, numerical methods, Laplace transforms, selected applications.
Prerequisites: jr st, grade of C or better in both Math 232(P) & 240(P), or grade of C or better in Math/ElecEng 234(P); or grad st.
Course Rules: No grad cr in Math Sci.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATH 321 Vector Analysis
3 cr. Undergraduate/Graduate.
Topics selected from vector algebra; scalar and vector fields; line, surface, and volume integrals; theorems of Green, Gauss, and Stokes; vector differential calculus.
Prerequisites: jr st, grade of C or better in Math 233(P); or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 322 Introduction to Partial Differential Equations
3 cr. Undergraduate/Graduate.
Partial differential equations of mathematical physics, boundary value problems in heat flow, vibrations, potentials, etc. Solved by Fourier series; Bessel functions and Legendre polynomials.
Prerequisites: jr st, Math 320(P), & grade of C or better in Math 233(P); or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 341 Seminar: Introduction to the Language and Practice of Mathematics
3 cr. Undergraduate.
Facility with mathematical language and method of conjecture, proof and counter example, with emphasis on proofs. Topics: logic, sets, functions and others.
Prerequisites: Math Placement Level 40, which is earned by any of the following: (a) Level 40 on Math Placement Test; (b) grade of C or better in Math 115, (c) grade of C or better in both Math 116 and Math 117; (d) grade of C or better in both Math 211 and Math 117; (e) grade of C or better in Math 116 and Level 36 on Math Placement Test; (f) grade of C or better in Math 211 and Level 36 on Math Placement Test; (g) grade of C or better in Math 117 and Level 35 on Math Placement Test; or (h) score of 61 or higher on the CLEP Precalculus Exam.
Current Offerings: http://uwm.edu/schedule

MATH 345 Mathematics from a Historical Perspective:
3 cr. Undergraduate.
Topics from the development of mathematics, such as famous problems, mathematicians, calculating devices; chronological outlines. Significant reading and writing assignments.
Prerequisites: Grade of C or better in Math 232(P); satisfaction of OWC-A.
Course Rules: May be retaken w/chg in topic to 9 cr max. Add'l prereqs announced in SOC each offering.
General Education Requirements: OWCB
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

MATH 351 Introduction to Mathematical and Computational Modeling
3 cr. Undergraduate/Graduate.
Construction and analysis of discrete and continuous mathematical models in applied, natural, and social sciences. Elements of programming, simulations, case studies from scientific literature.
Prerequisites: jr st; Math 320(P), & grade of C or better in Math 233(P); or grad st.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

MATH 352 Linear Programming and Optimization
3 cr. Undergraduate/Graduate.
Primal and dual formulations of linear programming problems; simplex and related methods of solution; algorithms for transportation; optimization.
Prerequisites: jr st; grade of C or better in either Math 234(P) or 240(P), & grade of C or better in either Math 211(P) or 233(P); or cons instr; or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 353 Introduction to Partial Differential Equations
3 cr. Undergraduate/Graduate.
Partial differential equations of mathematical physics, boundary value problems in heat flow, vibrations, potentials, etc. Solved by Fourier series; Bessel functions and Legendre polynomials.
Prerequisites: jr st, Math 320(P), & grade of C or better in Math 233(P); or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 371 Introduction to Stochastic Models in Finance
3 cr. Undergraduate/Graduate.
Elementary modeling of financial instruments for students in mathematics, economics, business, etc. Statistical and stochastic tools leading to the Black-Scholes model. Real data parameter fitting.
Prerequisites: jr st & one of the following pairs: Econ 413(431)(P) & 506(P), Bus Adm 210(P) & 350(P), Bus Adm 701(P) & 702(P), or Math 234(P) & MthStat 361(P), or cons instr; or grad st.
Last Taught: Fall 2001, Fall 2000.
Current Offerings: http://uwm.edu/schedule

MATH 372 Introduction to Stochastic Processes
3 cr. Undergraduate/Graduate.
Introduction to stochastic processes, Markov chains, Markov processes in continuous time, Brownian motion, and related topics. Applications to finance, biology, and engineering.
Prerequisites: jr st; Math 320(P), & grade of C or better in Math 233(P); or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 373 Introduction to the Black-Scholes Model
3 cr. Undergraduate/Graduate.
Development of the Black-Scholes model for pricing options and other financial derivatives. Applications to real-world financial instruments.
Prerequisites: jr st; Math 320(P), & grade of C or better in Math 233(P); or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 374 Financial Mathematics
3 cr. Undergraduate/Graduate.
Elementary financial mathematics, including annuities, life insurance, and pensions. Applications to financial management.
Prerequisites: jr st; Math 320(P), & grade of C or better in Math 233(P); or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 375 Financial Mathematics Models
3 cr. Undergraduate/Graduate.
Models with Apps.
Prerequisites: jr st, Math 320(P), & grade of C or better in either Math 234(P) or Math 240(P), & grade of C or better in Math/ElecEng 234(P) or Math 211(P) & one addl 200-level or higher Math or MthStat course, or cons instr; or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 376 Financial Mathematics Models and Optimization
3 cr. Undergraduate/Graduate.
Elementary financial mathematics, including annuities, life insurance, and pensions. Applications to financial management.
Prerequisites: jr st; Math 320(P), & grade of C or better in either Math 234(P) or Math 240(P), or grade of C or better in Math/ElecEng 234(P) or Math 211(P) & one addl 200-level or higher Math or MthStat course, or cons instr; or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 380 Introduction to Probability and Statistics
3 cr. Undergraduate.
Topics in probability and statistics, including random variables; discrete and continuous probability distributions; expectation; confidence intervals; and hypothesis testing.
Prerequisites: jr st; grade of C or better in Math 232(P); satisfaction of OWC-A.
Course Rules: May be retaken w/chg in topic to 9 cr max. Add'l prereqs announced in SOC each offering.
General Education Requirements: OWCB
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule
MATH 381 Honors Seminar
3 cr. Undergraduate.
Significant topics to illustrate to non-mathematicians the characteristic features of mathematical thought. Only H.S. algebra and geometry assumed.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max. Not open for cr toward a major in Math.
General Education Requirements: NS
Last Taught: Fall 2015, Fall 2013, Spring 2011, Spring 2010.
Current Offerings: http://uwm.edu/schedule

MATH 405 Mathematical Models and Applications
3 cr. Undergraduate/Graduate.
Modeling techniques for analysis and decision-making in social and life sciences and industry. Deterministic and stochastic modeling. Topics may vary with instructors.
Prerequisites: jr st; one of: grade of C or better in Math 211(P), grade of B or better in Math 213(P), or grade of C or better in Math 231(P); & grade of C or better in either Math/ElecEng 234(P) or Math 240(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATH 413 Introduction to Numerical Analysis
3 cr. Undergraduate/Graduate.
Root finding and solution of nonlinear systems; direct solution of linear systems; interpolation & approximation of functions; least squares; fast Fourier transform; quadrature.
Prerequisites: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MATH 415 Introduction to Scientific Computing
3 cr. Undergraduate/Graduate.
Nonlinear systems; iterative solution of linear systems; initial value problems in ordinary differential equations; boundary value problems in ordinary and partial differential equations.
Prerequisites: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 453 Transformations in Geometry
3 cr. Undergraduate/Graduate.
Selected topics from vector geometry and geometric transformations such as the study of invariants and conics.
Prerequisites: jr st, grade of C or better in both Math 341(P) & Math 232(C); or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 489 Internship in Mathematics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of mathematics in a business, organizational, educational, governmental, or other appropriate setting.
Prerequisites: jr st; 6 cr 300-level or above in math or math stats; 2.5 gpa in the major; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

MATH 490 Topics in Mathematics
3 cr. Undergraduate.
Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered. May be retaken w/chg in topic to 9 cr max.
Prerequisites: jr st; grade of C or better in a Math or MthStat course at the 200 level or above; or grad st.
Current Offerings: http://uwm.edu/schedule

MATH 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
MATH 499 Ad Hoc
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: [link]

MATH 511 Symbolic Logic
3 cr. Undergraduate/Graduate.
First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.
Prerequisites: jr st & either Philos 212(P) or 6 cr in math at the 300-level or above.
Course Rules: CompSci 511, Math 511 & Philos 511 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Fall 2015, Fall 2013, Spring 2003.
Current Offerings: [link]

MATH 521 Advanced Calculus I
3 cr. Undergraduate/Graduate.
Fundamental notions of sets and functions; limits, continuity; Riemann integral, improper integral; infinite series; uniform convergence; power series; improper integrals with a parameter.
Prerequisites: jr st; grades of C or better in Math 232(P) & 341(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [link]

MATH 522 Advanced Calculus II
3 cr. Undergraduate/Graduate.
Linear functions; differentiation of functions of several variables (implicit functions, Jacobians); change of variable in multiple integrals; integrals over curves, surfaces; Green, Gauss, Stokes theorems.
Prerequisites: jr st, Math 521(P), grade of C or better in Math 233(P), & grade of C or better in either Math 234(P) or 240(P); or grad st.
Current Offerings: [link]

MATH 531 Modern Algebra
3 cr. Undergraduate/Graduate.
Integers; groups; rings; fields; emphasis on proofs.
Prerequisites: jr st; grade of C or better in Math 341(P).
Current Offerings: [link]

MATH 535 Linear Algebra
3 cr. Undergraduate/Graduate.
Vector spaces; linear transformations and matrices; characteristic values and vectors; canonical forms; bilinear, quadratic, and Hermitian forms; selected applications.
Prerequisites: jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in Math 341(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [link]

MATH 537 Number Theory
3 cr. Undergraduate/Graduate.
Number theoretic functions; distribution of primes; Diophantine approximation; partitions; additive number theory; quadratic reciprocity.
Prerequisites: jr st, grade of C or better in both Math 232(P) & 341(P); or grad st.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: [link]

MATH 551 Elementary Topology
3 cr. Undergraduate/Graduate.
General theory of point sets in Euclidean spaces, with emphasis on topology of two-dimensional and three-dimensional spaces; elementary notions of metric spaces; applications.
Prerequisites: jr st; grades of C or better in Math 233(P) & 341(P); or grad st.
Current Offerings: [link]

MATH 553 Differential Geometry
3 cr. Undergraduate/Graduate.
The theory of curves and surfaces by differential methods.
Prerequisites: jr st, grade of C or better in all of Math 233(P), 234(P) & 341(P); or grad st.
Last Taught: Spring 2018, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: [link]

MATH 571 Introduction to Probability Models
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; grade of C or better in Math 233(P); grade of C or better in Math/ElecEng 234(P) or in both Math 240(P) & 320(P); & one calculus-based course in statistics or probability at the 300 level or above; or grad st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: [link]

MATH 575 High School Mathematics from an Advanced Viewpoint
3 cr. Undergraduate/Graduate.
Number systems; algebra of polynomials; theory of equations; functions; modeling; geometric measurement; geometric transformations; connections between advanced mathematics and high school topics.
Prerequisites: jr st, either Math 451(P) or 453(P), & either Math 431(P) or 531(P); or cons instr; or grad st.
Course Rules: Counts as repeat of Math 690(675) w/similar topic.
Current Offerings: [link]

MATH 581 Introduction to the Theory of Chaotic Dynamical Systems
3 cr. Undergraduate/Graduate.
Iterated mappings, one parameter families, attracting and repelling periodic orbits, topological transitivity, Sarkovski’s theorem, chaos, bifurcation theory, period doubling route to chaos, horseshoe maps, attractors.
Prerequisites: jr st & Math 521(P), 529(P) or 621(P), or cons instr; or grad st.
Current Offerings: [link]
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Course Rules</th>
<th>Offering Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 617</td>
<td>Optimization</td>
<td>3 cr.</td>
<td>Undergraduate</td>
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<td>Waiting List</td>
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<td></td>
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<td>Unconstrained constrained optimization: linear, nonlinear, and dynamic programming; barrier, penalty, and Lagrangian methods; Karush-Kuhn-Tucker theory, quadratic, and sequential quadratic programming; evolutionary algorithms.</td>
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<td>Prerequisites: jr st; Math 321(P) or 602(P); or grad st or cons instr.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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<tr>
<td>MATH 621</td>
<td>Introduction to Analysis I</td>
<td>3 cr. Undergraduate</td>
<td>Topology of Euclidean space; continuity; differentiation of real and vector-valued functions; Riemann-Stieltjes integration.</td>
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<td>Prerequisites: jr st; grades of C or better in Math 233(P), 341(P), &amp; either 234(P) or 240(P); cons dept advisor; or grad st.</td>
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<td>Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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<tr>
<td>MATH 622</td>
<td>Introduction to Analysis II</td>
<td>3 cr. Undergraduate</td>
<td>Continues Math 621. Sequences and series of functions; uniform convergence; power series; functions of several variables; inverse and implicit function theorems; differential forms; Stokes' theorem.</td>
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<td>Prerequisites: jr st; Math 621(P) or cons instr; or grad st.</td>
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<td>Current Offerings: <a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
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<tr>
<td>MATH 631</td>
<td>Modern Algebra I</td>
<td>3 cr. Undergraduate</td>
<td>Group theory, including normal subgroups, quotients, permutation groups, Sylow's theorems, Abelian groups; field theory; linear algebra over general fields.</td>
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<td>Prerequisites: jr st; grade of C or better in Math 341(P) &amp; either Math 234(P) or 240(P); cons dept advisor; or grad st.</td>
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<tr>
<td>MATH 632</td>
<td>Modern Algebra II</td>
<td>3 cr. Undergraduate</td>
<td>Continuation of Math 631. Ring theory, including ideals, quotient rings, Euclidean rings, polynomial rings, unique factorization; modules, including vector spaces, linear transformations, canonical forms; bilinear forms.</td>
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<td>Prerequisites: jr st; Math 631(P) or cons instr; or grad st.</td>
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<td>MATH 690</td>
<td>Topics in Mathematics</td>
<td>3 cr. Undergraduate</td>
<td>Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.</td>
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<td>Prerequisites: jr st, at least one U/G Math or MthStat course; cons instr; or grad st.</td>
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<td>Course Rules: May be retaken w/chg in topic to 9 cr max.</td>
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<tr>
<td>MATH 699</td>
<td>Independent Reading</td>
<td>1-3 cr. Undergraduate</td>
<td>See Advanced Independent Study. For further information, consult dept chair.</td>
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<td>Prerequisites: jr st; 2.5 gpa, &amp; writ cons instr; dept chair, &amp; asst dean for SAS.</td>
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</table>
MATH 701 Industrial Mathematics I  
3 cr. Graduate.  
Elementary functional analysis, wavelets, control theory. Use of mathematical software emphasized throughout.  
Prerequisites: grad st in nat sci discipline; Math 522(P) or 602(P) or 622(P).  
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

MATH 702 Industrial Mathematics II  
3 cr. Graduate.  
Optimal control theory, digital signal processing, image processing, linear programming, nonlinear optimization, artificial neural networks. Use of mathematical software emphasized throughout.  
Prerequisites: grad st in nat sci discipline; Math 701(P).  
Current Offerings: http://uwm.edu/schedule

MATH 703 Boundary Value Problems  
3 cr. Graduate.  
Prerequisites: grad st; Math 322(P) & 623(P).  
Current Offerings: http://uwm.edu/schedule

MATH 709 Differential Geometry  
3 cr. Graduate.  
The theory of curves, surfaces, and manifolds in modern terminology. Global results on closed surfaces, geodesics, differential forms and tensor calculus.Introduction to riemannian geometry.  
Prerequisites: grad st; Math 522(P) or 622(P).  
Last Taught: Fall 2007, Fall 2000.  
Current Offerings: http://uwm.edu/schedule

MATH 711 Theory of Functions of a Real Variable I  
3 cr. Graduate.  
Equivalence relations; cardinal and ordinal numbers; topology of real line; cantor and borel sets; lebesgue measure on real line; baire and measurable functions; lebesgue integral.  
Prerequisites: grad st; Math 522(P) & 551(P); or Math 622(P).  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

MATH 712 Theory of Functions of a Real Variable II  
3 cr. Graduate.  
Lebesgue integration; modes of convergence; lp spaces; vitalli covering and lebesgue density theorems; dini derivates; differentiation; fundamental theorem of the lebesgue integral calculus; fubini's theorem.  
Prerequisites: grad st; Math 711(P).  
Current Offerings: http://uwm.edu/schedule

MATH 713 Theory of Functions of a Complex Variable I  
3 cr. Graduate.  
Complex numbers; linear transformations; elementary functions; conformal mapping; complex integration; infinite sequences; dirichlet problem; multivalued functions.  
Prerequisites: grad st; Math 522(P) or 621(P).  
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.  
Current Offerings: http://uwm.edu/schedule

MATH 714 Theory of Functions of a Complex Variable II  
3 cr. Graduate.  
Continuation of Math 713.  
Prerequisites: grad st; Math 713(P).  
Current Offerings: http://uwm.edu/schedule

MATH 715 Numerical Analysis  
3 cr. Graduate.  
Interpolation and approximation; differentiation and quadrature; numerical solution of ordinary differential equations; solution of linear and nonlinear algebraic equations.  
Prerequisites: grad st; Math 413(P); Math 521(P) or 621(P).  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

MATH 716 Ordinary Differential Equations  
3 cr. Graduate.  
Existence and uniqueness theorems for systems of ode; qualitative properties of solutions, including stability and asymptotic behavior; general theory of linear systems; sturm-liouville problems.  
Prerequisites: grad st; Math 522(P) or 622(P).  
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

MATH 719 Partial Differential Equations  
3 cr. Graduate.  
First and second order equations; characteristics, cauchy problem; classical solutions of linear elliptic, parabolic and hyperbolic equations.  
Prerequisites: grad st; Math 522(P) or 622(P); math 320(P).  
Current Offerings: http://uwm.edu/schedule

MATH 721 Abstract Measure and Integration  
3 cr. Graduate.  
General theory of measures and integration; differentiation of set functions; relation to stochastic variables; atomic measures; haar measure and integral applications to probability theory.  
Prerequisites: grad st; Math 712(P).  
Current Offerings: http://uwm.edu/schedule

MATH 726 Introduction to Functional Analysis  
3 cr. Graduate.  
Basic notions of functional analysis in hilbert space will be introduced. The concepts will be illustrated by applications to elementary differential and integral equation problems.  
Prerequisites: grad st; Math 522(P) or 622(P).  
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.  
Current Offerings: http://uwm.edu/schedule

MATH 731 Abstract Algebra I  
3 cr. Graduate.  
Basic course which is prerequisite for all other 700-799 level courses in algebra; groups, rings, fields, galois theory, modules, and categories.  
Prerequisites: grad st; Math 632(P); cons instr.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule
University of Wisconsin-Milwaukee

MATH 732 Abstract Algebra II
3 cr. Graduate.
Continuation of Math 731.
Prerequisites: grad st; Math 731(P).
Current Offerings: http://uwm.edu/schedule
MATH 735 Theory of Groups
3 cr. Graduate.
Topics selected from permutation groups; representations of groups and
algebras; group algebras; group characters; extension problems; simple
groups; solvable and nilpotent groups.
Prerequisites: grad st; Math 732(P).
Current Offerings: http://uwm.edu/schedule
MATH 736 Theory of Rings and Modules I
3 cr. Graduate.
Noetherian and artinian rings and modules; primitive, prime and simple
rings and ideals; radicals; localization; morita theory; construction and
study of special classes of rings.
Prerequisites: grad st; Math 732(P).
Last Taught: Fall 2005, Fall 1991, Fall 1988, Fall 1986.
Current Offerings: http://uwm.edu/schedule
MATH 737 Theory of Rings and Modules II
3 cr. Graduate.
Continuation of Math 736.
Prerequisites: grad st; Math 736(P) or cons instr.
Current Offerings: http://uwm.edu/schedule
MATH 751 Introductory Topology I
3 cr. Graduate.
Fundamental properties and examples of topological spaces and
continuous functions, including compactness, connectedness,
metrizability, completeness, product and quotient spaces,
homeomorphisms, embedding, extension, and euclidean spaces.
Prerequisites: grad st; Math 522(P) or 621(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
MATH 752 Introductory Topology II
3 cr. Graduate.
Continuation of Math 751.
Prerequisites: grad st; Math 751(P).
Current Offerings: http://uwm.edu/schedule
MATH 753 Introduction to Algebraic Topology I
3 cr. Graduate.
Homology theory; complexes and simplicial homology theory; general
homology theories; cohomology rings; applications to manifolds, ﬁxed
point theorems, etc.
Prerequisites: grad st; Math 632(P); Math 551(P) or 751(P) or cons instr.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule
MATH 754 Introduction to Algebraic Topology II
3 cr. Graduate.
Continuation of Math 753.
Prerequisites: grad st; Math 753(P).
Current Offerings: http://uwm.edu/schedule

1599

MATH 767 Statistical Methods for Engineers and Scientists
3 cr. Graduate.
Elementary baysian decision theory; prior posterior and predictive
distributions; posterior and pre-posterior analysis of two action decision
problems; concept of likelihood functions for binomial, poisson,
exponential and normal distributions; simple and multiple regression
analysis; introduction to autoregressive models.
Prerequisites: grad st; Math 362(P) or math 467(P).
Course Rules: Not open to students who have cr in ElecEng 767, which is
identical to Math 767.
Current Offerings: http://uwm.edu/schedule
MATH 768 Applied Stochastic Processes
3 cr. Graduate.
Concepts in queueing theory; exponential channels; applications of
markov chains to queueing problems; queue disciplines with priorities.
Prerequisites: grad st; Math 361(P) or math 467(P).
Course Rules: Not open to students who have cr in ElecEng 768, which is
identical to Math 768.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
MATH 771 Theory of Probability
3 cr. Graduate.
Measure-theoretic foundations; limit-law theorems; weak and strong
laws of large numbers; central limit problem; conditional expectations,
martingales; stochastic processes.
Prerequisites: grad st; Math 471(C) or 712(C).
Current Offerings: http://uwm.edu/schedule
MATH 781 Iterated Maps as Dynamical Systems
3 cr. Graduate.
Periodic, recurrent and non-wandering points, kneading theory, unstable
manifolds, unimodal mappings, turbulent and chaotic maps, symbolic
dynamics, structural stability, topological conjugacy, topological
dynamics.
Prerequisites: grad st; Math 711(P) or cons instr.
Last Taught: Fall 2000, Fall 1993, Fall 1992.
Current Offerings: http://uwm.edu/schedule
MATH 790 Master's Thesis
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Course Rules: Cr count toward masters degree only if student completes
thesis option.
Current Offerings: http://uwm.edu/schedule
MATH 791 Master's Seminar
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Course Rules: May not be taken for cr more than once.
Last Taught: Spring 2014, Fall 2013, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule


MATH 792 Industrial Internship
1-3 cr. Graduate.
Students earn credits for serving in an industrial internship that involves work of an advanced mathematical nature. They must prepare a report based on the internship.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

MATH 793 Scientific Computational Laboratory:
1-2 cr. Graduate.
Prerequisites: grad st; Math 715(C).
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

MATH 799 Seminar in Mathematics:
1-3 cr. Graduate.
Specific topics and any additional prerequisites announced in Timetable each time course is offered.
Prerequisites: grad st & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 801 Topics in Applied Mathematics:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Spring 2015, Fall 2008, Fall 2006.
Current Offerings: http://uwm.edu/schedule

MATH 807 Group Theory and Its Applications to Physics
3 cr. Graduate.
Representations of discrete and continuous groups, including rotation groups, unitary groups and crystal point and space groups. Symmetries of elementary particles. Molecular orbitals, energy bands.
Prerequisites: grad st; Physics 532(P).
Course Rules: Counts as a repeat of Physics 807.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

MATH 809 Topics in Differential Geometry:
1-3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered. Topics may be selected from Riemannian geometry, minimal surfaces and surfaces of prescribed mean curvature, geometric partial differential equations, or related areas of geometry.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MATH 813 Numerical Solution of Ordinary Differential Equations
3 cr. Graduate.
Methods for initial value and boundary value problems; stiff equations, singular points and bifurcation.
Prerequisites: grad st; Math 715(P).
Last Taught: Fall 2001, Fall 1998, Fall 1987, Fall 1986.
Current Offerings: http://uwm.edu/schedule

MATH 814 Numerical Solution of Partial Differential Equations
3 cr. Graduate.
Finite difference and finite element methods for linear elliptic, parabolic and hyperbolic equations; nonlinear equations.
Prerequisites: grad st; Math 715(P).
Current Offerings: http://uwm.edu/schedule

MATH 815 Topics in Numerical Analysis:
3 cr. Graduate.
Prerequisites: grad st; Math 715(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MATH 816 Advanced Ordinary Differential Equations
3 cr. Graduate.
Existence and uniqueness theorems; singularity of solutions; oscillation and comparison theorems; poicare-bendixon theory.
Prerequisites: grad st; Math 716(P).
Current Offerings: http://uwm.edu/schedule

MATH 817 Advanced Ordinary Differential Equations II
3 cr. Graduate.
Continuation of Math 816; dynamical systems, bifurcation theory, topological methods.
Prerequisites: grad st; Math 816(P).
Current Offerings: http://uwm.edu/schedule

MATH 821 Advanced Topics in Real Analysis:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; Math 712(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MATH 825 Functional Analysis
3 cr. Graduate.
Basic theorems of b-spaces and f-spaces including the closed graph; Hahn-Banach and Banach-Steinhaus theorems; Banach algebras; generalized functions; spectral theory.
Prerequisites: grad st; Math 712(P).
Last Taught: Spring 2013, Fall 1998, Fall 1994, Fall 1993.
Current Offerings: http://uwm.edu/schedule
MATH 841 Advanced Topics in Algebra:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; Math 732(P); cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 843 Homological Algebra I
3 cr. Graduate.
Modules; diagrams; categories; functors; complexes; cohomology; extensions; resolutions; injective and projective systems; graded modules; homological dimension; spectral sequences; derived functors.
Prerequisites: grad st; Math 731(P).
Last Taught: Fall 2015, Fall 2010, Fall 2002, Fall 1999.
Current Offerings: http://uwm.edu/schedule

MATH 844 Homological Algebra II
3 cr. Graduate.
Continuation of Math 843.
Prerequisites: grad st; Math 843(P).
Current Offerings: http://uwm.edu/schedule

MATH 851 Advanced Topics in Topology:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; Math 732(P); cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MATH 873 Advanced Topics in Probability:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

MATH 881 Topics in Nonlinear Dynamics:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; Math 711(P); cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

MATH 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule

MATH 990 Reading and Research
1-6 cr. Graduate.
To be arranged with your instructor and department chair.
Prerequisites: grad st.
Course Rules: Retakable.
Current Offerings: http://uwm.edu/schedule

Mathematical Statistics Courses

MTHSTAT 194 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshman. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

MTHSTAT 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 215 Elementary Statistical Analysis
3 cr. Undergraduate.
Elementary probability theory; descriptive statistics; sampling distributions; basic problems of statistical inference including estimation; tests of statistical hypothesis in both one- and two- sample cases.
Prerequisites: satisfaction of Quantitative Literacy Part A GER.
General Education Requirements: QLB, NS
Current Offerings: http://uwm.edu/schedule

MTHSTAT 278 Discrete Probability and Statistics for Elementary Education Majors
3 cr. Undergraduate.
Random experiments; histograms; sample spaces; equally likely outcomes for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; max likelihood estimation & inference.
Prerequisites: grade of C or better in Math 176(P) or cons instr.
Course Rules: Math 278 and MthStat 278 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2009, Fall 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2004.
Current Offerings: http://uwm.edu/schedule
MTHSTAT 361 Introduction to Mathematical Statistics I
3 cr. Undergraduate/Graduate.
Probability spaces; discrete and continuous, univariate and multivariate distributions; moments; independence, random sampling, sampling distributions; normal and related distributions; point and interval estimation.
Prerequisites: jr st; Math 233(P).
Course Rules: Not recom for grad students in math, or students not planning to take MthStat 362.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 362 Introduction to Mathematical Statistics II
3 cr. Undergraduate/Graduate.
Testing statistical hypothesis; linear hypothesis; regression; analysis of variance and experimental designs; distribution-free methods; sequential methods.
Prerequisites: jr st; MthStat 361(P).
Course Rules: Not recom for grad students in math.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 361 Introduction to Mathematical Statistics I
3 cr. Undergraduate/Graduate.
Probability spaces; discrete and continuous, univariate and multivariate distributions; moments; independence, random sampling, sampling distributions; normal and related distributions; point and interval estimation.
Prerequisites: jr st; Math 233(P).
Course Rules: Not recom for grad students in math, or students not planning to take MthStat 362.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 362 Introduction to Mathematical Statistics II
3 cr. Undergraduate/Graduate.
Testing statistical hypothesis; linear hypothesis; regression; analysis of variance and experimental designs; distribution-free methods; sequential methods.
Prerequisites: jr st; MthStat 361(P).
Course Rules: Not recom for grad students in math.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 465 Introductory Mathematical Statistics for Social Sciences and Education
3 cr. Undergraduate/Graduate.
Probability distributions; parameter estimation and confidence intervals; hypothesis testing; applications.
Prerequisites: jr st; Math 211(P) or 232(P).
Course Rules: Not open for cr to students w/cr in MthStat 467, 362, or for grad cr in math. Not open for cr toward major in math except in School of Education.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 467 Introductory Statistics for Physical Sciences and Engineering Students
3 cr. Undergraduate/Graduate.
Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing, parameter estimation; experimental design; regression analysis.
Prerequisites: jr st; Math 233(P).
Course Rules: Not open for cr for Math majors or students with cr in MthStat 362 or 465.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 469 Biostatistics
3 cr. Undergraduate/Graduate.
Simple distributions, estimation and hypothesis testing, simple regression, analysis of variance, nonparametric methods in biology. Demography and vital statistics and bioassay and clinical trials.
Prerequisites: jr st; an elementary stats course.
Course Rules: Not allowed as part of core curric for Math majors. Not open for cr to students with cr in MthStat 569 & not open for grad cr in Math.
Last Taught: Fall 1987, Fall 1986, Spring 1984.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 489 Internship in Mathematical Statistics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of mathematical statistics in a business, organizational, educational, governmental, or other appropriate setting.
Prerequisites: jr st; 6 cr 300-level or above in Math or MthStat; 2.5 gpa in the major; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 562 Design of Experiments
3 cr. Undergraduate/Graduate.
Latin squares; incomplete block designs; factorial experiments; confounding; partial confounding; split-plot experiments; fractional replication.
Prerequisites: jr st; MthStat 362(P), Math 234(P) or 240(P).
Last Taught: Fall 2008, Fall 2006, Fall 2004, Fall 2002.
Current Offerings: http://uwm.edu/schedule

MTHSTAT 563 Regression Analysis
3 cr. Undergraduate/Graduate.
Straight line, polynomial and multiple regression; multiple and partial correlation; testing hypotheses in regression; residual analysis.
Prerequisites: jr st; MthStat 467(P) or 362(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Requirements</th>
<th>Offerings</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3 cr.</td>
<td>Undergraduate/Graduate. Autocorrelation; spectral density; linear models; forecasting; model identification and estimation.</td>
<td>C or better in Math 311(P) or cons instr.</td>
</tr>
<tr>
<td>MTHSTAT 568</td>
<td>Multivariate Statistical Analysis</td>
<td>3 cr.</td>
<td>Undergraduate/Graduate. Multivariate normal distribution; Wishart distribution; Hotelling’s T2; multivariate normal distribution; multivariate analysis of variance; classification problems.</td>
<td>jr st; Math 234(P) or 240(P).</td>
</tr>
<tr>
<td>MTHSTAT 591</td>
<td>Foundations of Professional Practice in Actuarial Science</td>
<td>1 cr.</td>
<td>Undergraduate. Lecture and discussions on professional topics such as health, pension, life, casualty, regulation.</td>
<td>jr st; Math 522(C) or 622(C).</td>
</tr>
<tr>
<td>MTHSTAT 592</td>
<td>Actuarial Science Laboratory I: Probability, Finance, and Economics</td>
<td>1 cr.</td>
<td>Undergraduate. Fundamental probability tools for quantitatively assessing risk integrated with economic and financial concepts; application of tools to actuarial problems; introduction to insurance and risk management.</td>
<td>grad st; Math 522(C) or 622(C).</td>
</tr>
<tr>
<td>MTHSTAT 593</td>
<td>Actuarial Science Laboratory II: Interest Theory, Finance, and Economics</td>
<td>1 cr.</td>
<td>Undergraduate. Fundamental interest theory tools integrated with economic and financial concepts; financial mathematics; financial instruments; calculating present and accumulated values for various streams of cash flow.</td>
<td>grad st; Math 571(P) or 572(C).</td>
</tr>
</tbody>
</table>
MTHSTAT 863 Hypothesis Testing
3 cr. Graduate.
Exponential families; uniformly most–powerful tests; least favorable priors; unbiased tests; invariant tests; applications to exponential families and the general linear hypothesis.
Prerequisites: grad st; MthStat 762(P).
Current Offerings: http://uwm.edu/schedule

MTHSTAT 869 Advanced Topics in Mathematical Statistics:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st; MthStat 762(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fredric D. Ancel</td>
<td>Professor</td>
<td>PhD</td>
<td>George Washington University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>James E. Arnold Jr.</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Jay H. Beder</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Washington</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Allen D. Bell</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Virginia</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Rebecca Bourn</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Suzanne L. Boyd</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Texas at Dallas, Co-</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Vytaras Brazauskas</td>
<td>Professor</td>
<td>PhD</td>
<td>director of Actuarial Science (Graduate)</td>
<td></td>
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</tr>
<tr>
<td>Karen M. Brucks</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Florida State University, Atmospheric</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>A. Clark Evans</td>
<td>Professor</td>
<td>PhD</td>
<td>Science Coordinator</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Dashan Fan</td>
<td>Professor</td>
<td>PhD</td>
<td>Universidad de Buenos Aires</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Daniel Gervini</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Jugal K. Ghorai</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Tennessee</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Craig R. Guilbault</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Robert L. Hall</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Vanderbilt University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Peter Hinow</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Indiana University, Co-director of</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Yang Ho</td>
<td>Clinical Professor</td>
<td>PhD</td>
<td>Actuarial Science (Undergraduate)</td>
<td></td>
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</tr>
<tr>
<td>Ingrid Holzner</td>
<td>Senior Lecturer</td>
<td>MS</td>
<td></td>
<td></td>
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<tr>
<td>G. Christopher Hruska</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Cornell University</td>
<td></td>
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</tr>
<tr>
<td>Jonathan Kahl</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
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</tr>
<tr>
<td>Eric S. Key</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Kelly Kohlmetz</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
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</tr>
<tr>
<td>Sergey Kravtsov</td>
<td>Professor</td>
<td>PhD</td>
<td>Florida State University</td>
<td></td>
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</tr>
<tr>
<td>Vincent Larson</td>
<td>Professor</td>
<td>PhD</td>
<td>Massachusetts Institute of Technology</td>
<td></td>
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</tr>
<tr>
<td>Istvan G. Lauko</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Texas Tech University</td>
<td></td>
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</tr>
<tr>
<td>Cheng-Ming Lee</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Kevin B. McLeod</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
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</tr>
<tr>
<td>Richard J. Mihalek</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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</tr>
<tr>
<td>Albert J. Milani</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Robert H. Moore</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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</tr>
<tr>
<td>Ian M. Musson</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
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</tr>
<tr>
<td>Thomas O’Bryan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td></td>
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</tr>
<tr>
<td>Richard J. O’Malley</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
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</tr>
<tr>
<td>Boris L. Okun</td>
<td>Professor</td>
<td>PhD</td>
<td>State University of New York at Binghamton</td>
<td></td>
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<tr>
<td>Gabriella Pinter</td>
<td>Professor</td>
<td>PhD</td>
<td>Texas Tech University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Paul Roebber</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>McGill University</td>
<td></td>
<td>✓</td>
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<tr>
<td>David H. Schultz</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
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</tbody>
</table>
Actuarial Science, BA

Actuarial science is the quantitative analysis of risk. In addition to mathematics and statistics courses, students in actuarial science take classes in finance, economics and computer programming.

At many universities, actuarial sciences is housed in the business department. We believe that the most successful actuaries have an extensive foundation in mathematics and in the broader liberal arts, and therefore our program is housed in our Department of Mathematical Sciences.

While you will take several business classes, you will also be heavily exposed to the broader context in which risk exists in our lives. Through economics courses and other courses in the social sciences and humanities, you will see how actuarial science is not practiced in a vacuum but has real-life implications and impact on businesses, individuals, and communities as a whole.

Students interested in actuarial science should make every effort to prepare themselves in high school by taking four years of challenging math classes. Ideally, students will enter college ready to start in the first semester of calculus.

As students progress in our program, they begin to take the professional exams required of actuaries, making themselves more attractive job candidates. Our location in Milwaukee, the largest city in Wisconsin and home to many large and small companies, also gives our students easier access to internships and part-time jobs compared to smaller cities. If you are looking for more advanced training beyond the bachelor’s level, explore our Master’s of Science in Mathematical Sciences (http://uwm.edu/math/graduate/programs/ms-program). In this program, you can obtain graduate-level training in actuarial science.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy</td>
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<tr>
<td>Part A</td>
<td>Select one of the following:</td>
<td></td>
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<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td>Select 3 credits</td>
<td>3</td>
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<tr>
<td>Humanities</td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Select 6 credits</td>
<td>6</td>
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<tr>
<td>Natural Sciences</td>
<td></td>
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</tbody>
</table>
College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
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<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
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<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
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<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
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</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
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<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
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<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
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</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.*

Social Sciences
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

Natural Sciences
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation.**

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students complete in residence at UWM at least 15 upper-division (numbered 300 or above) credits in the major. The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA in the major attempted at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Actuarial Science Major Requirements
Preparatory Curriculum
Students in all majors in the Department of Mathematical Sciences must complete MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent). MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. Students majoring in actuarial science must have a GPA of at least 2.500 in these courses. All majors must take either MATH 234 or MATH 240, as well as a course in computer programming in a modern, high-level language (e.g., COMPSCI 151, COMPSCI 250, or COMPSCI 251). Actuarial science majors must complete additional preparatory curricula, as indicated below.

Capstone Experience
Students in all majors and major options in the Department of Mathematical Sciences must complete a Capstone Experience. The aim of the department’s capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. For Actuarial Science majors, the capstone is MATH 599. Students must obtain consent of a professor to enroll in ATM SCI 599 or MATH 599.

Requirements
Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>Select at least 6 credits of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 151</td>
<td>Introduction to Scientific Programming in Fortran</td>
<td></td>
</tr>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Core Curriculum
MATH 311   Theory of Interest | 4
MATH 599   Capstone Experience | 1
MTHSTAT 361 Introduction to Mathematical Statistics I | 3
MTHSTAT 362 Introduction to Mathematical Statistics II | 3
MTHSTAT 563 Regression Analysis | 3
MTHSTAT 564 Time Series Analysis | 3
MTHSTAT 591 Foundations of Professional Practice in Actuarial Science | 1
MTHSTAT 592 Actuarial Science Laboratory I: Probability, Finance, and Economics | 1
MTHSTAT 593 Actuarial Science Laboratory II: Interest Theory, Finance, and Economics | 1
BUS ADM 350 Principles of Finance | 3
or BUS ADM 450 Intermediate Finance | |
ECON 301 Intermediate Microeconomics | 3
or ECON 302 Intermediate Macroeconomics | |
Select one of the following: | 6
MATH 571 & MTHSTAT 691 Introduction to Probability Models and Actuarial Models I: Life Contingencies |
MATH 571 & MTHSTAT 692 Introduction to Probability Models and Actuarial Models II: Financial Economics |
Actuarial Science, Minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 596</td>
<td>Actuarial Statistics I: Fitting of Loss Models</td>
</tr>
<tr>
<td>MTHSTAT 597</td>
<td>and Actuarial Statistics II: Credibility, Risk Measures and Related Topics</td>
</tr>
</tbody>
</table>

**Total Credits**: 55

**Recommended Electives**

To achieve the best preparation for an actuarial career, students actively should pursue internship opportunities with insurance companies, consulting firms, and other organizations that require actuarial science knowledge. Once such an opportunity is secured, the student should enroll in MTHSTAT 489. Students also should take courses in communication (COMMUN 103, COMMUN 264) and expand their knowledge in economics (ECON 248, ECON 450). Note that ECON 248 satisfies the cultural diversity requirement.

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Students considering a major in the Department of Mathematical Sciences need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

**Honors in the Major**

Students in Actuarial Science who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Actuarial Science major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Actuarial Science major; and
4. The passing of at least three professional actuarial exams.

Students who believe they may qualify for honors in Actuarial Science should apply to the Mathematical Sciences Department during their last semester of study.

**Honors in the College of Letters and Science**

**Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact Professor Yang Ho, hoy@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/math/undergraduate/majors/actuarial-science/

**Actuarial Science, Minor**

Actuarial science is the quantitative analysis of risk. In addition to mathematics and statistics courses, students in actuarial science take classes in finance, economics and computer programming.

At many universities, actuarial sciences is housed in the business department. We believe that the most successful actuaries have an extensive foundation in mathematics and in the broader liberal arts, and
therefore our program is housed in our Department of Mathematical Sciences.

While you will take several business classes, you will also be heavily exposed to the broader context in which risk exists in our lives. Through economics courses and other courses in the social sciences and humanities, you will see how actuarial science is not practiced in a vacuum but has real-life implications and impact on businesses, individuals, and communities as a whole.

Students interested in actuarial science should make every effort to prepare themselves in high school by taking four years of challenging math classes. Ideally, students will enter college ready to start in the first semester of calculus.

As students progress in our program, they begin to take the professional exams required of actuaries, making themselves more attractive job candidates. Our location in Milwaukee, the largest city in Wisconsin and home to many large and small companies, also gives our students easier access to internships and part-time jobs compared to smaller cities. If you are looking for more advanced training beyond the bachelor’s level, explore our Master’s of Science in Mathematical Sciences (http://uwm.edu/math/graduate/programs/ms-program). In this program, you can obtain graduate-level training in actuarial science.

Requirements

Students must complete at least 9 upper-division (numbered 300 and above) credits for the minor in residence at UWM. The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

**Admission Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 311</td>
<td>Theory of Interest</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 361</td>
<td>Introduction to Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete either BUS ADM 450 or the Economics sequence below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance</td>
<td>3-6</td>
</tr>
<tr>
<td>ECON 301 &amp; ECON 302</td>
<td>Intermediate Microeconomics and Intermediate Macroeconomics</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**Total Credits** 17-20

1 Admission to the minor requires a minimum GPA of 2.500 in these courses or an equivalent course sequence. Students who have completed these courses with the required GPA may complete a formal declaration of minor at the department office. These courses do not count in the minor GPA.

2 BUS ADM 450 or ECON 301 & ECON 302 should be completed with a grade of B- or better.

**Contact Information**

Current Students contact Professor Yang Ho, hoy@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/math/undergraduate/majors/actuarial-science/

**Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematics)**

The Applied Mathematics and Computer Science (AMCS) program is a special degree program that blends courses from both the College of Letters & Science and the College of Engineering & Applied Science. It is a structured curriculum offering courses from both applied math and computer science so that students get the benefit of both majors without having to double major.

The job outlook for individuals with math majors is extremely favorable, as is the job outlook for computer science majors. A student with combined knowledge in both areas is likely to be in high demand on the job market.

Our program is highly technical in nature yet still retains elements of a classic liberal arts degree. Students take courses in the humanities, social sciences, and natural sciences on their way to a degree. Why? Because math and computer science are not applied in a world without humans. Regardless of the type of industry, the applications being worked on have impact and consequences for human beings. A broad world view of cultures, history, and society only leads to better decision-making in scientific careers, and strong communication skills only make our graduates even more attractive.

**Requirements**

**Applied Math and Computer Science Major Requirements**

Students who intend to complete the program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of 30 (ready for precalculus) or better.

**Admission**

As soon as students realize their interest in the AMCS degree, they should consult with an AMCS advisor either in College of Engineering and Applied Science or College of Letters and Science, who assists in planning a program. Students may be given the AMCS classification at any point in their studies; however, they are not formally admitted to the major until their junior year. Admission to the junior year of the program requires a GPA of at least 2.500 in 8 credits of mathematics courses at or above the 200 level and 6 credits of computer science courses at or above the 200 level.

**Degree Requirements**

For the BS (AMCS) degree, 120 credits are required, of which 80 must be taken from the College of Letters and Science. Students must satisfy...
the general education requirements (GER) of the University. They must complete at least 6 credits each from humanities and social sciences, 3 credits from the arts, and 6 additional credits in any of these three areas or in foreign languages. Students also must take at least 8 credits of natural sciences outside of mathematics or mathematical statistics, including at least one laboratory course from biological sciences, chemistry, or physics. A cultural diversity course must be included among the humanities and social science courses selected.

An overall GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

- The last 30 credits;
- 45 of the last 60 credits;
- Any 90 credits.

### Core Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>MATH 232</td>
<td>Calculus and Analytic Geometry II</td>
<td></td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 240</td>
<td>Matrices and Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

### Advanced Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 313 &amp; MATH 315</td>
<td>Linear Programming and Optimization</td>
<td></td>
</tr>
<tr>
<td>MATH 320 &amp; MATH 322</td>
<td>Introduction to Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 413 &amp; MATH 415</td>
<td>Introduction to Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 521 &amp; MATH 522</td>
<td>Advanced Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 531 &amp; MATH 535</td>
<td>Modern Algebra and Linear Algebra</td>
<td></td>
</tr>
</tbody>
</table>

MATH 631 & MATH 632 | Modern Algebra I and Modern Algebra II
MTHSTAT 361 & MTHSTAT 362 | Introduction to Mathematical Statistics I and Introduction to Mathematical Statistics II

Select 21 additional credits from CompSci, Math, and MthStat courses at the 300 level or above, beyond the "Core" as well as the above "Advanced" Requirements

### Total Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 117</td>
<td>Trigonometry</td>
<td>2</td>
</tr>
<tr>
<td>Humanities or Social Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities or Social Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>Natural Science with lab</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CompSci or Math elective</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Math sequence course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CompSci advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math sequence course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Math or CompSci elective</td>
<td></td>
<td>2</td>
</tr>
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</table>

### Potential Course of Study

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGLISH 101</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 116</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 117</td>
<td>Trigonometry</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Humanities or Social Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Humanities or Social Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMPSCI 351</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Natural Science with lab</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 233</td>
<td>Calculus and Analytic Geometry III</td>
<td>3</td>
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<td></td>
<td></td>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
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<td></td>
<td></td>
<td>Natural Science</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>COMPSCI 351</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 313 &amp; MATH 315</td>
<td>Linear Programming and Optimization</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 320 &amp; MATH 322</td>
<td>Introduction to Differential Equations and Introduction to Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 413 &amp; MATH 415</td>
<td>Introduction to Numerical Analysis and Introduction to Scientific Computing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 521 &amp; MATH 522</td>
<td>Advanced Calculus I and Advanced Calculus II</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 531 &amp; MATH 535</td>
<td>Modern Algebra and Linear Algebra</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Fall</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CompSci or Math elective</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math sequence course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Natural Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CompSci advanced elective</td>
<td></td>
<td>3</td>
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<td></td>
<td></td>
<td>Math sequence course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math or CompSci elective</td>
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<table>
<thead>
<tr>
<th>Year 3</th>
<th>Spring</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>COMPSCI 535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CompSci advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math sequence course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math advanced elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Math or CompSci elective</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

| Credits | 79     |
Honors in the Degree

Students in AMCS who meet all of the following criteria can be awarded honors in the degree upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses attempted that count toward the AMCS degree;
3. A 3.500 GPA over all upper division UWM courses counting toward the AMCS degree;
4. A grade of B+ or better in one of: MATH 599, MATH 699, COMPSCI 595, or COMPSCI 699;
5. Completion of 3 credits in Mathematical Sciences (curricular areas MATH or MTHSTAT) or Computer Science in a course numbered 600 or higher that is different from MATH 699 and COMPSCI 699.

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact Professor Bruce Wade, wade@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/math/undergraduate/majors/applied-mathematics-computer-science/

Atmospheric Science, BS

Atmospheric Science is the study of short-term weather and long-term climate, involving activities such as weather forecasting, climate projections, air quality modeling, data analysis, and basic and applied research.

Some universities may call this major "Meteorology." We call it Atmospheric Science because our program is much broader than just weather forecasting. Students in our program will obtain a solid foundation in the mathematical modeling that forms the basis of analysis not just of tomorrow's expected weather but also long-term climate change, storm impact and predictability, pollution patterns and impact, and the consequences of weather to people and organizations.

While TV weather forecasters may be the most visible job outcome for an Atmospheric Science major, the fact is that there are a very limited number of these jobs nationally. Most majors work in other areas of the field such as research, government agencies such as NASA and NOAA, consulting firms, and schools. As more and more companies realize the impact weather can have on business operations, more job opportunities are opening in the private sector, and this is the sector with the greatest projected job growth.

Atmospheric Science students at UWM have a unique opportunity not found at any other university in the state. Our Innovative Weather program (http://innovativeweather.com) is hired by numerous businesses such as the Milwaukee Brewers and We Energies that need to make decisions based on the weather. Students work with these clients to provide customized forecasts and risk analysis. The Atmospheric Science major provides distinct tracks that help prepare students for careers in weather forecasting, natural hazard risk assessment, and data analytics, or for graduate study.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they
entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Arts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (At least two courses including one lab)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**College of Letters & Science Requirements**

**I. English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

**III. Foreign Language Requirement**

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (p. 1169) for course options.
Atmospheric Science (BS) Major Requirements

Preparatory Curriculum
Students in all majors in the Department of Mathematical Sciences must complete MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent). MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. All majors must take either MATH 234 or MATH 240. Atmospheric science majors must complete additional preparatory curricula, as indicated below.

Capstone Experience
Students in all majors and major options in the Department of Mathematical Sciences must complete a "Capstone Experience." The aim of the department’s capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. For Atmospheric Science majors, the capstone is ATM SCI 599. Students must obtain consent of a professor to enroll in ATM SCI 599.

Requirements
Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The following courses are required for the atmospheric science major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Study Abroad:</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 240</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 330</td>
<td>Air-Pollution Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 350</td>
<td>Atmospheric Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 351</td>
<td>Dynamic Meteorology I</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 352</td>
<td>Dynamic Meteorology II</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 360</td>
<td>Synoptic Meteorology I</td>
<td>4</td>
</tr>
<tr>
<td>ATM SCI 361</td>
<td>Synoptic Meteorology II</td>
<td>4</td>
</tr>
<tr>
<td>ATM SCI 464</td>
<td>Physical Meteorology Cloud Physics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 511</td>
<td>Seminar in Atmospheric Radiation and Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 599</td>
<td>Capstone Experience</td>
<td>1</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
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</table>

Additional Preparatory Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 214 &amp; PHYSICS 210</td>
<td>and Lab Physics I (Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>PHYSICS 210 &amp; PHYSICS 215</td>
<td>Physics II (Calculus Treatment)</td>
<td>5</td>
</tr>
<tr>
<td>COMPSCI 151</td>
<td>Introduction to Scientific Programming in Fortran</td>
<td>3</td>
</tr>
</tbody>
</table>

Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 240</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 330</td>
<td>Air-Pollution Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 350</td>
<td>Atmospheric Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 351</td>
<td>Dynamic Meteorology I</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 352</td>
<td>Dynamic Meteorology II</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 360</td>
<td>Synoptic Meteorology I</td>
<td>4</td>
</tr>
<tr>
<td>ATM SCI 361</td>
<td>Synoptic Meteorology II</td>
<td>4</td>
</tr>
<tr>
<td>ATM SCI 464</td>
<td>Physical Meteorology Cloud Physics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 511</td>
<td>Seminar in Atmospheric Radiation and Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 599</td>
<td>Capstone Experience</td>
<td>1</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select at least 9 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 460</td>
<td>Mesoscale Circulations</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 470</td>
<td>Tropical Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 480</td>
<td>The General Circulation and Climate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 497</td>
<td>Study Abroad:</td>
<td>3</td>
</tr>
</tbody>
</table>
In Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the Major**

Students in Atmospheric Sciences who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Atmospheric Sciences major;
3. A 3.000 cumulative GPA in all UWM graded credits;
4. Successful completion of at least two semesters of research and/or internship experiences. The research and internship experiences can include one or more of the Capstone Experience (ATM SCI 599), a directed independent study for credit (ATM SCI 699), an internship for credit (ATM SCI 695), the Atmospheric Sciences Study Abroad course (ATM SCI 297/ATM SCI 497), undergraduate research for compensation, and participation in the Innovative Weather program at the staff level. The staff level of Innovative Weather is the third level of participation, coming after a pre-internship (several weeks in one semester) and an internship (one semester at 5-10 hours per week). Staff positions are paid, and staff members typically work around 10 hours per week during the fall or spring semesters, more in the summer session.

Students who believe they may qualify for honors in Atmospheric Sciences should apply to the Mathematical Sciences Department during their last semester of study.

**Atmospheric Science Advising**

Students considering a major in Atmospheric Science need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Professor Clark Evans, evans36@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/atmospheric-science/undergraduate/

Atmospheric Science, Minor
Atmospheric Science is the study of short-term weather and long-term climate, involving activities such as weather forecasting, climate projections, air quality modeling, data analysis, and basic and applied research.

Some universities may call this field “Meteorology;” we call it Atmospheric Science because our program is much broader than just weather forecasting.

Atmospheric Science students at UWM have a unique opportunity not found at any other university in the state. Our Innovative Weather program (http://innovativeweather.com) is hired by numerous businesses such as the Milwaukee Brewers and We Energies that need to make decisions based on the weather. Students work with these clients to provide customized forecasts and risk analysis.

Requirements
The College of Letters and Science requires that students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM, and students must attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

The minor consists of a minimum of 18 credits in atmospheric science, as follows.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 240</td>
<td>Introduction to Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 360</td>
<td>Synoptic Meteorology I</td>
<td>4</td>
</tr>
<tr>
<td>Select 12 credits at the 300 level or above</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Contact Information
Current Students contact Associate Professor Clark Evans, evans36@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/atmospheric-science/undergraduate/
Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

Credits and Courses

Students enrolled in the M.S. in Atmospheric Science degree program must complete a total of thirty (30) credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 12 credits at the ATM SCI 700-level or greater</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in approved graduate elective courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 601 &amp; MATH 602 Advanced Engineering Mathematics I and Advanced Engineering Mathematics II</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500 &amp; ATM SCI 950 Statistical Methods in Atmospheric Sciences and Seminar on Topics in Atmospheric Sciences: (&quot;Topics in Statistical Analysis and Interpretation of Geophysical Data Sets: Part II&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATM SCI 990 Master’s Thesis</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Students receiving financial support from the Department of Mathematical Sciences must enroll in a minimum of fifteen (15) credits offered by the department during each academic year.

Courses in Atmospheric Science that may be taken for graduate credit are listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 330</td>
<td>Air-Pollution Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 350</td>
<td>Atmospheric Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 351</td>
<td>Dynamic Meteorology I</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 352</td>
<td>Dynamic Meteorology II</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 360</td>
<td>Synoptic Meteorology I</td>
<td>4</td>
</tr>
<tr>
<td>ATM SCI 361</td>
<td>Synoptic Meteorology II</td>
<td>4</td>
</tr>
<tr>
<td>ATM SCI 460</td>
<td>Mesoscale Circulations</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 464</td>
<td>Physical Meteorology: Cloud Physics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 470</td>
<td>Tropical Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 480</td>
<td>The General Circulation and Climate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 497</td>
<td>Study Abroad: (subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 505</td>
<td>Micrometeorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 511</td>
<td>Seminar in Atmospheric Radiation and Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 690</td>
<td>Seminar in Atmospheric Sciences:</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 705</td>
<td>Air Pollution Modeling</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 711</td>
<td>Cloud Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 750</td>
<td>Nonlinear Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 761</td>
<td>Advanced Synoptic/Mesoscale Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 950</td>
<td>Seminar on Topics in Atmospheric Sciences:</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 990</td>
<td>Master’s Thesis</td>
<td>1-8</td>
</tr>
<tr>
<td>ATM SCI 997</td>
<td>Doctoral Externship</td>
<td>1-12</td>
</tr>
<tr>
<td>ATM SCI 998</td>
<td>Doctoral Dissertation</td>
<td>1-12</td>
</tr>
<tr>
<td>ATM SCI 999</td>
<td>Advanced Independent Reading</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Thesis

Prior to graduation, students, under the direction of a major professor and supervision of a three-member evaluation committee comprised of Atmospheric Science graduate faculty, must complete and orally defend an acceptable thesis. An acceptable thesis is defined as one representing an original contribution in the atmospheric science of sufficient caliber for publication in a peer-reviewed journal.

Time Limit

Entering full-time students without deficiencies are expected to complete all degree requirements within two years of first enrollment. All degree requirements must be completed within five years of first enrollment.

Atmospheric Science, PhD

The UWM Atmospheric Science Program, housed within the Department of Mathematical Sciences, is a group of scholars who engage in a wide array of distinguished, societally-relevant research currently supported by over $3 million in external funding. Their specializations include climate variability, cloud physics and numerical modeling, atmospheric dynamics, mesoscale and synoptic meteorology, air pollution meteorology, and data analytics. The Atmospheric Science graduate programs are focused on student-led research under the direction of one or more faculty advisors.

Over its twenty-plus years of existence, the program has a history of innovation in both education and research, with the Innovative Weather program and first-of-its-kind “Air Pollution and Ancient Cultures” faculty-led study abroad course being two representative examples of innovative educational opportunities. Students graduating from the program, have a long history of acquiring gainful employment with top-tier public and private sector institutions in Wisconsin and beyond.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

Students seeking admission to the Ph.D. in Atmospheric Science degree program must meet all UWM Graduate School requirements. An earned Master of Science degree is not a prerequisite for admission; however, it is expected that most applicants will have an earned master of science degree in atmospheric science or a closely-related discipline.

Entering students without an earned master of science degree should have a general background in both physics and mathematics, including calculus and ordinary differential equations. Students who lack this background may be admitted if the deficiencies amount to no more than two courses, and deficiencies must be made up within three enrolled semesters of graduate study.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ATM SCI 950</td>
<td>Seminar on Topics in Atmospheric Sciences:</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 990</td>
<td>Master’s Thesis</td>
<td>1-8</td>
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<tr>
<td>ATM SCI 999</td>
<td>Advanced Independent Reading</td>
<td>1-4</td>
</tr>
</tbody>
</table>
Courses in Atmospheric Science that may be taken for graduate credit are ATM SCI 998 level or above; three credits of graduate coursework, at least half of which will be completed at the 700-level or above; typical Ph.D. student's curriculum will consist of twelve credits of formal coursework from other curricular areas. With the approval of their major professor, students may elect to supplement their formal Atmospheric Science coursework with advanced independent reading or professional development. It is expected that most students are expected to identify additional graduate courses that benefit their studies as specified in Graduate School regulations.

Credits and Courses

Students enrolled in the Ph.D. in Atmospheric Science program must complete a total of fifty-four (54) graduate credits beyond the bachelor’s degree with at least twenty-seven (27) earned in residence at UWM. Students receiving financial support from the Department of Mathematical Sciences must enroll in a minimum of fifteen (15) credits offered by the department during each academic year. As part of their 54 credits, students admitted directly to the Ph.D. program without an earned Master of Science in Atmospheric Science from UWM or elsewhere have fulfilled Master's degree/pre-doctoral coursework and Seminar on Topics in Atmospheric Sciences: ("Topics in Statistical Analysis and Interpretation of Geophysical Data Sets: Part II")

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<tbody>
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<td>Seminar on Topics in Atmospheric Sciences:</td>
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<td>1-12</td>
</tr>
<tr>
<td>ATM SCI 999</td>
<td>Advanced Independent Reading</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Preliminary Examination

To qualify for dissertator status, students must successfully pass a preliminary examination in Atmospheric Science, focusing on three sub-disciplines of the field, and complete a dissertation proposal hearing. With approval of their major professor, students may elect to substitute an area of mathematics for one of the three Atmospheric Science sub-disciplines on the preliminary examination. The preliminary examination must be attempted prior to the start of the third year of study, and students who fail the examination are permitted one retake. The preliminary examination and dissertation proposal hearing must both be completed no later than the end of the fourth year of study.

Dissertation

To receive the degree, students, under the direction of a major professor and supervision of a five-member evaluation committee, must complete and successfully defend a dissertation representing an original contribution to the field of sufficient caliber for publication in a peer-reviewed journal. The evaluation committee is to be comprised of four Atmospheric Science graduate faculty members and one member external to the program.

Time Limit

Entering full-time students with an earned Master of Science degree are expected to complete all degree requirements within three to four years of first enrollment. Entering full-time students without an earned Master
of Science degree are expected to complete all degree requirements within five to six years of first enrollment. All degree requirements must be completed within ten years of first enrollment, consistent with UWM’s campus-wide policy.

**Mathematics, BA**

Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Many students assume that most math majors become teachers. While many do, there are many other opportunities for math majors. The United States National Security Agency is the largest employer of math majors in the country. Math majors will also be found at NASA; in engineering firms; at insurance and risk management firms; in robotics and computer science companies; at large and small corporations working in market research, data management and web management; at social media start ups and established firms like YouTube; and any place that needs to make decisions based on numerical facts.

At UWM, the Math major has been designed to be flexible so that students could complete their major requirements via courses that match their interests and goals. Many students should find it relatively easy to complete double majors in mathematics and another subject.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

- Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.
- Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.
- Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.
- Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should examine the School of Education (p. 426) programs.

Some students with an interest in computer science, choose to enroll in the Applied Math and Computer Science (p. 1609) program. This program is ideal for the student who might have considered double majoring in both math and computer science; it combines applied math courses with computer science classes for you into one program.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</tbody>
</table>

**Oral and Written Communication**

**Part A**

ENGLISH 102 College Writing and Research (or equivalent)

**Part B**

Course designated as OWC-B; may be completed through a major-specific course requirement

**Quantitative Literacy**

**Part A**

Select one of the following:

- MATH 103 Contemporary Applications of Mathematics
- MATH 105 Introduction to College Algebra
- MATH 108 Algebraic Literacy II
- Or equivalent course

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits

**Humanities**

Select 6 credits

**Social Sciences**

Select 6 credits

**Natural Sciences**

Select 6 credits (at least two courses including one lab)

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

**UWM Cultural Diversity Requirement**
College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Complete 12 credits of L&S courses with Social Science Breadth designation; no more than 6 credits from a single subject area.

Complete 9 credits in combination of the two options above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
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</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ ) designation, L&S students must complete the Breadth requirement.

Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

Natural Sciences
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation.

* Students should check their course selections carefully with the list of approved L&B Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Mathematics Major Requirements
Preparatory Curriculum
Students in all majors in the Department of Mathematical Sciences must complete MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent). MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. Students majoring in mathematics must have a GPA of at least 2.500 in these courses. All majors must take either MATH 234 or MATH 240, as well as a course in computer programming in a modern, high-level language (e.g., COMPSCI 151, COMPSCI 250, or COMPSCI 251). The department also recommends strongly one year of calculus-based physics.

Capstone Experience
Students in all majors and major options in the Department of Mathematical Sciences must complete a "Capstone Experience." The aim of the department’s capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. Mathematics majors may choose either MATH 599 or MATH 575. Students must obtain consent of a professor to enroll in MATH 599.

Requirements
The following courses are required for the Mathematics major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 24 credits in upper-division math courses (those numbered 300 and above, and in curricular areas MATH or MTHSTAT). Required among these 24 upper-division math credits are at least six credits in math courses numbered 500 and above, excluding MATH 591, MATH 599, MATH 699 or MTHSTAT 591.

Total Credits 27

Additional Requirements
- Note that MATH 381 and MTHSTAT 465 and MTHSTAT 467 are not open for credit in the Mathematics major.
- Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM.
- The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including transfer work.

Recommendations
Mathematics courses fall naturally into the following groups (see below for individual courses):

1. Applied Mathematics
2. Computational Mathematics
3. Probability and Statistics
4. Pure Mathematics

For students planning to pursue graduate studies in mathematics, we recommend students take at least 36 cr upper division mathematics courses, with as many courses as possible from Pure Mathematics, Group 1. Many PhD programs require reading knowledge of French, German, or Russian.

For students planning to pursue graduate studies in statistics or economics, we recommend MATH 521, MATH 522, and as many as possible of MTHSTAT 361, MTHSTAT 362, and MTHSTAT 562-MTHSTAT 568.

For students seeking employment in statistics after the bachelor's degree, we recommend MTHSTAT 361, MTHSTAT 362, and as many as possible of MTHSTAT 562-MTHSTAT 568, as well as courses in computer programming (COMPSCI 250, COMPSCI 251, etc.).

For students seeking general non-academic employment after the bachelor's degree, we recommend courses from the Probability and Statistics group (including MTHSTAT 362), the Applied Mathematics group (including both modeling and differential equations), the Computational Mathematics group, Linear Algebra (MATH 535), and courses in computer programming (COMPSCI 240, COMPSCI 250, COMPSCI 251, etc.).

For students intending to become high school mathematics teachers, we recommend courses in algebra (MATH 431, MATH 531), geometry (MATH 451, MATH 453), linear algebra (MATH 535), numerical methods (MATH 413), advanced calculus (MATH 521, MATH 522), the math education capstone (MATH 575), and probability and statistics (MTHSTAT 361 & MTHSTAT 362).

For students pursuing a major in mathematics as a liberal art, for general logical and critical thinking skills, we recommend the Pure Mathematics courses.
## Mathematics Groups

### Applied Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 305</td>
<td>Introduction to Mathematical and Computational Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 322</td>
<td>Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Introduction to Stochastic Models in Finance</td>
<td>3</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Mathematical Models and Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 431</td>
<td>Modern Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 581</td>
<td>Introduction to the Theory of Chaotic Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 601</td>
<td>Advanced Engineering Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 602</td>
<td>Advanced Engineering Mathematics II</td>
<td>3</td>
</tr>
</tbody>
</table>

### Computational Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Mathematical Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 415</td>
<td>Introduction to Scientific Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 417</td>
<td>Computational Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 615</td>
<td>Numerical Solution of Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 617</td>
<td>Optimization</td>
<td>3</td>
</tr>
</tbody>
</table>

### Probability and Statistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 361</td>
<td>Introduction to Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 562</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 565</td>
<td>Nonparametric Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 566</td>
<td>Computational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 568</td>
<td>Multivariate Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

### Pure Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 521</td>
<td>Advanced Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 522</td>
<td>Advanced Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 531</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 535</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 551</td>
<td>Elementary Topology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 621</td>
<td>Introduction to Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 622</td>
<td>Introduction to Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 631</td>
<td>Modern Algebra I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 632</td>
<td>Modern Algebra II</td>
<td>3</td>
</tr>
</tbody>
</table>

### Mathematics Advising

Students considering a major in the Department of Mathematical Sciences need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

### Honors in the Major

Students in Mathematics who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Mathematics major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Mathematics major; and
4. At least one of the following:
   - Successful completion of at least two semesters of research and/or internship experiences. These may include one or more of the Capstone Experience (MATH 599), a directed independent study for credit (MATH 699), an internship for credit (MATH 489), and undergraduate research for compensation.
   - Successful completion of at least 6 credits in Mathematical Sciences (curricular areas Math or MthStat) courses numbered 600 or above.
   - A score of at least the 50th percentile on the Math Subject GRE.

Students who believe they may qualify for honors in Mathematics should apply to the Mathematical Sciences Department during their last semester of study.

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Comencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, math-staff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/math/undergraduate/

Mathematics, BS

Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Many students assume that most math majors become teachers. While many do, there are many other opportunities for math majors. The United States National Security Agency is the largest employer of math majors in the country. Math majors will also be found at NASA, in engineering firms; at insurance and risk management firms; in robotics and computer science companies; at large and small corporations working in market research, data management and web management; at social media start ups and established firms like YouTube; and any place that needs to make decisions based on numerical facts.

At UWM, the Math major has been designed to be flexible so that students could complete their major requirements via courses that match their interests and goals. Many students should find it relatively easy to complete double majors in mathematics and another subject.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

- Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.
- Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.
- Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.
- Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should examine the School of Education (p. 426) programs.

Some students with an interest in computer science, choose to enroll in the Applied Math and Computer Science (p. 1609) program. This program is ideal for the student who might have considered double majoring in both math and computer science; it combines applied math courses with computer science classes for you into one program.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-
wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
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<tr>
<td></td>
<td>Or equivalent course</td>
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<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
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<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (At least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

**College of Letters & Science Requirements**

**I. English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

**III. Foreign Language Requirement**

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.
IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
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</tbody>
</table>

Completed in one of the following ways:  
1. Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.
2. Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.
3. Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ or CD) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

**Arts**
Select 3 credits

**Humanities**
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *

**Social Sciences**
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.

**Natural Sciences**
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *

**Cultural Diversity**
Complete 3 credits in a course with Cultural Diversity (CD) designation. **

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Mathematics Major Requirements
Preparatory Curriculum
Students in all majors in the Department of Mathematical Sciences must complete MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent), MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. Students majoring in mathematics must have a GPA of at least 2.500 in these courses.

All majors must take either MATH 234 or MATH 240, as well as a course in computer programming in a modern, high-level language (e.g., COMPSCI 151, COMPSCI 250, or COMPSCI 251). The department also recommends strongly one year of calculus-based physics.

Capstone Experience
Students in all majors and major options in the Department of Mathematical Sciences must complete a "Capstone Experience." The aim of the department's capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. Mathematics majors may choose either MATH 599 or MATH 575. Students must obtain consent of a professor to enroll in MATH 599.

Requirements
The following courses are required for the Mathematics major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
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<td></td>
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</tbody>
</table>

Select 24 credits in upper-division math courses (those numbered 300 and above, and in curricular areas MATH or MTHSTAT). Required among these 24 upper-division math credits are at least six credits in math courses numbered 500 and above, excluding MATH 591, MATH 599, MATH 699 or MTHSTAT 591.

Total Credits 27

Additional Requirements
- Note that MATH 381 and MTHSTAT 465 and MTHSTAT 467 are not open for credit in the Mathematics major.
- Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM.
- The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including transfer work.

Recommendations
Mathematics courses fall naturally into the following groups (see below for individual courses):

1. Applied Mathematics
2. Computational Mathematics
3. Probability and Statistics
4. Pure Mathematics

For students planning to pursue graduate studies in mathematics, we recommend students take at least 36 cr upper division mathematics courses, with as many courses as possible from Pure Mathematics,
Group 1. Many PhD programs require reading knowledge of French, German, or Russian.

For students planning to pursue graduate studies in statistics or economics, we recommend MATH 521, MATH 522, and as many as possible of MTHSTAT 361, MTHSTAT 362, and MTHSTAT 562-MTHSTAT 568.

For students seeking employment in statistics after the bachelor's degree, we recommend MTHSTAT 361, MTHSTAT 362, and as many as possible of MTHSTAT 562-MTHSTAT 568, as well as courses in computer programming (COMPSCI 250, COMPSCI 251, etc.).

For students seeking general non-academic employment after the bachelor's degree, we recommend courses from the Probability and Statistics group (including MTHSTAT 362), the Applied Mathematics group (including both modeling and differential equations), the Computational Mathematics group, Linear Algebra (MATH 535), and courses in computer programming (COMPSCI 240, COMPSCI 250, COMPSCI 251, etc.).

For students intending to become high school mathematics teachers, we recommend courses in algebra (MATH 431, MATH 531), geometry (MATH 451, MATH 453), linear algebra (MATH 535), numerical methods (MATH 413), advanced calculus (MATH 521, MATH 522), the math education capstone (MATH 575), and probability and statistics (MTHSTAT 361 & MTHSTAT 362).

For students pursuing a major in mathematics as a liberal art, for general logical and critical thinking skills, we recommend the Pure Mathematics courses.

### Mathematics Groups

#### Applied Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 305</td>
<td>Introduction to Mathematical and Computational Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 322</td>
<td>Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Introduction to Stochastic Models in Finance</td>
<td>3</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Mathematical Models and Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 431</td>
<td>Modern Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 581</td>
<td>Introduction to the Theory of Chaotic Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 601</td>
<td>Advanced Engineering Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 602</td>
<td>Advanced Engineering Mathematics II</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Computational Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Mathematical Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 415</td>
<td>Introduction to Scientific Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 417</td>
<td>Computational Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 615</td>
<td>Numerical Solution of Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 617</td>
<td>Optimization</td>
<td>3</td>
</tr>
</tbody>
</table>

### Probability and Statistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 361</td>
<td>Introduction to Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 562</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 565</td>
<td>Nonparametric Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 566</td>
<td>Computational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 568</td>
<td>Multivariate Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

### Pure Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 521</td>
<td>Advanced Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 522</td>
<td>Advanced Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 531</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 535</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 551</td>
<td>Elementary Topology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 621</td>
<td>Introduction to Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 622</td>
<td>Introduction to Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 631</td>
<td>Modern Algebra I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 632</td>
<td>Modern Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 423</td>
<td>Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 451</td>
<td>Axiomatic Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 453</td>
<td>Transformations in Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 511</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>MATH 537</td>
<td>Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 553</td>
<td>Differential Geometry</td>
<td>3</td>
</tr>
</tbody>
</table>

### Mathematics Advising

Students considering a major in the Department of Mathematical Sciences need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

### Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment.
GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**
Current Students contact the Department directly, math-staff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/math/undergraduate/

**Mathematics, Minor**
Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Many students assume that most math majors become teachers. While many do, there are many other opportunities for math majors. The United States National Security Agency is the largest employer of math majors in the country. Math majors will also be found at NASA; in engineering firms; at insurance and risk management firms; in robotics and computer science companies; at large and small corporations working in market research, data management and web management; at social media start ups and established firms like YouTube; and any place that needs to make decisions based on numerical facts.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

- Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.
- Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.
- Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.
- Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or
The students enrolled in this program will be able to earn Master's degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page http://uwm.edu/math/graduate/.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Completion of three semesters of undergraduate calculus.
2. At least 18 credits of acceptable undergraduate preparation beyond calculus.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering graduate student is assigned a temporary advisor by the Associate Chair for Graduate Programs.

Credits and Courses
Minimum degree requirement is 30 or 36 credits, depending upon which option the student chooses:

30-credit option:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>21 credits from Math and MthStat courses</td>
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<td>21</td>
</tr>
<tr>
<td>Minimum 12 credits numbered 700 or above</td>
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<td></td>
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<tr>
<td>Up to 9 credits of approved coursework outside the department</td>
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<td>9</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

36-credit option:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 credits from Math and MthStat courses</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Maximum of 12 credits below 500 level</td>
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<td></td>
</tr>
</tbody>
</table>
Objective of Mathematics MS: Actuarial Science (Option D)

The program provides a mathematically rigorous education in actuarial science, prepares students for actuarial professional exams, and develops their economics and business reasoning skills. Students obtain thorough knowledge in the fundamentals of actuarial science such as applied probability models, applied statistics, credibility, financial economics, life contingencies, loss models, and risk theory. Emphasis is placed on developing skills that are highly valued by employers and thus are essential for a successful career as actuary. This program is intended for students who will seek employment as an actuary upon completion of the degree. Those interested in entering the department’s Ph.D. program should consider a different Master’s option.

Overview of Mathematical Sciences

Department MS programs

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, industrial mathematics, and atmospheric science.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a Ph.D. as well as the student who wishes to begin a professional career upon completion of the master’s program.

The students enrolled in this program will be able to earn Master's degrees from both institutions upon completion of the common course requirements.

For students who will seek employment as an actuary upon completion of the degree. Those interested in entering the department’s Ph.D. program should consider a different Master’s option.

Admission

Students with undergraduate degrees in mathematics, statistics, actuarial science, economics or a related area are eligible for admission. Applicants should have a strong mathematical background that includes three semesters of calculus, linear algebra, probability, and mathematical statistics. Students lacking this background may be admitted provided that the deficiencies amount to no more than two courses. Although not required, having one actuarial professional exam passed would be an asset.

Major Professor as Advisor

The student must have a major professor, selected from the members of the Actuarial Science Committee, to advise and supervise the student's
studies. The entering student is assigned an advisor by the chair of the committee. Before the start of studies, each student in the program must develop a plan of study in consultation with the Committee.

**Actuarial Science Concentration**

**Credits and Courses**

The minimum degree requirement is 30 credits. In order to graduate, the following requirements must be completed:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 596</td>
<td>Actuarial Statistics I: Fitting of Loss Models</td>
<td>18</td>
</tr>
<tr>
<td>MTHSTAT 597</td>
<td>Actuarial Statistics II: Credibility, Risk Measures and Related Topics</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 691</td>
<td>Actuarial Models I: Life Contingencies</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 692</td>
<td>Actuarial Models II: Financial Economics</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 795</td>
<td>Actuarial Risk Theory</td>
<td></td>
</tr>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td></td>
</tr>
<tr>
<td>or MATH 768</td>
<td>Applied Stochastic Processes</td>
<td></td>
</tr>
</tbody>
</table>

Select at least 12 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 311</td>
<td>Theory of Interest</td>
<td></td>
</tr>
<tr>
<td>MATH 790</td>
<td>Master’s Thesis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 792</td>
<td>Industrial Internship</td>
<td>3</td>
</tr>
<tr>
<td>MATH 799</td>
<td>Seminar in Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td></td>
</tr>
<tr>
<td>ECON 701</td>
<td>Economic Theory: Microeconomics (VEE-Economics)</td>
<td>4</td>
</tr>
<tr>
<td>ECON 702</td>
<td>Economic Theory: Macroeconomics (VEE-Economics)</td>
<td>4</td>
</tr>
<tr>
<td>BUSMGMT 705</td>
<td>Corporate Finance (VEE-Corporate Finance)</td>
<td>3</td>
</tr>
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</table>

Select 18 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis (VEE-Applied Statistics)</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis (VEE-Applied Statistics)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 701</td>
<td>Economic Theory: Microeconomics (VEE-Economics)</td>
<td>4</td>
</tr>
<tr>
<td>ECON 702</td>
<td>Economic Theory: Macroeconomics (VEE-Economics)</td>
<td>4</td>
</tr>
</tbody>
</table>

Courses taken at other universities may be used to meet the VEE requirement of the SOA/CAS.

**Time Limit**

Full-time students are expected to complete the program in two years. Students must complete all degree requirements within five years of initial enrollment.

**Mathematics, MS: Foundations of Advanced Studies**

**Objective of Mathematics MS: Foundations of Advanced Studies (Option E)**

This option is designed to prepare students for advanced-level graduate programs. It is structured so that students with basic preparation from their undergraduate institutions can complete the option in no more than two years. Some students with a higher level of preparation may transfer up to 12 graduate credits from the courses they completed previously; such students may advance more quickly through the program and complete the degree in only one year.

**Overview of Mathematical Sciences Department MS programs**

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, industrial mathematics, and atmospheric science.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a Ph.D. as well as the student who wishes to begin a professional career upon completion of the master’s program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Five options for the master’s degree are offered: the standard mathematics option (A), the industrial mathematics option (B), the
Statistics option (C), the actuarial science option (D), and the foundations of advanced studies option (E). Students who plan to continue for a Ph.D. degree with a focus on mathematics/statistics should elect an option from options A, B, C, and E, or the dual master's degree option. The department also offers a master's degree in atmospheric science.

**Dual Master’s Degree Option**

In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master’s Degree Program in Mathematics. The students enrolled in this program will be able to earn Master’s degrees from both institutions upon completion of the common core requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page [http://uwm.edu/math/graduate/](http://uwm.edu/math/graduate/).

**Admission**

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. Completion of three semesters of undergraduate calculus.
2. At least 18 credits of acceptable undergraduate preparation beyond calculus, including at least 3 credits of Linear Algebra (MATH 535 or equivalent) and at least 3 credits of Advanced Calculus (MATH 521 or equivalent).

Applicants who intend to be admitted with specific program-defined course deficiencies should consider the Standard Math Option instead.

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The Associate Chair for Graduate Programs assigns a temporary advisor for the entering graduate student.

**Credits and Courses**

Minimum degree requirement is 30 credits from mathematics/statistics courses, including

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 621</td>
<td>Introduction to Analysis I and Analysis II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 622</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 631</td>
<td>Modern Algebra I and Modern Algebra II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 632</td>
<td></td>
<td></td>
</tr>
<tr>
<td>At least 12 credits must be taken in courses numbered 700 or above.</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Up to 6 credits may be in approved courses from outside the Department.</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

Students who already have taken MATH 621/MATH 622 and/or MATH 631/MATH 632 (or equivalent courses as another institution) as undergraduates may request permission to take alternatives from the following list:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 711</td>
<td>Theory of Functions of a Real Variable I and Theory of Functions of a Real Variable II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 712</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 713</td>
<td>Theory of Functions of a Complex Variable I and Theory of Functions of a Complex Variable II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 714</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 731</td>
<td>Abstract Algebra I and Abstract Algebra II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 732</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 751</td>
<td>Introductory Topology I and Introductory Topology II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 752</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Examination**

The student must pass a written comprehensive examination.

**Time Limit**

The student must complete all degree requirements within 5 years of initial enrollment. Normally, the student can complete all degree requirements within 2 years of initial enrollment. Students who have prior graduate coursework may be able to complete the degree requirements in 1 year.

**Financial Support**

The Department of Mathematical Sciences does not offer financial support to students enrolled in this program.

**Mathematics, MS: Industrial Mathematics**

**Objective of Mathematics MS: Industrial Mathematics (Option B)**

The objective of the master's program in industrial mathematics is to enable students to acquire the fundamentals of applied mathematics in areas of classical and numerical analysis, differential equations and dynamical systems, and probability and statistics. At the same time, the connection of these fields to modeling of physical, biological, and engineering phenomena will be stressed by requiring credits outside of the Department of Mathematical Sciences. Students are to obtain practical experience in mathematical modeling and analysis during an internship or industrial project that will culminate in a thesis.

**Overview of Mathematical Sciences Department MS programs**

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, industrial mathematics, and atmospheric science.

The programs of study at the master's level are designed to suit both the student intending to continue toward a Ph.D. as well as the student who
wishes to begin a professional career upon completion of the master’s program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Five options for the master's degree are offered: the standard mathematics option (A), the industrial mathematics option (B), the statistics option (C), the actuarial science option (D), and the foundations of advanced studies option (E). Students who plan to continue for a Ph.D. degree with a focus on mathematics/statistics should elect an option from options A, B, C, and E, or the dual master's degree option. The department also offers a master's degree in atmospheric science.

**Dual Master's Degree Option**

In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master's Degree Program in Mathematics. The students enrolled in this program will be able to earn Master's degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page http://uwm.edu/math/graduate/.

**Admission**

An applicant must meet the Graduate School requirements as well as the following departmental requirements to be considered for admission to the program:

1. A bachelor’s degree in an area of mathematical science (applied or pure mathematics, actuarial science, statistics, etc.), computer science, economics or finance, physics, engineering, or a related field.
2. Completion of at least three semesters of undergraduate calculus plus at least 6 credits of acceptable mathematics courses requiring calculus.

Students satisfying only the minimum mathematics requirements will be expected to take courses that do not count toward the degree.

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies. The entering graduate student is assigned an advisor by the chair of the Industrial Mathematics Committee. Depending on the thesis topic, the student may later change advisors.

**General Requirements**

A student must have completed, either prior to entering the program or by the time of graduation, courses in advanced calculus, numerical analysis, and ordinary differential equations. In addition, students must complete courses involving Fourier series, linear algebra, linear programming, mathematical modeling, partial differential equations, probability, and calculus-based statistics.

**Credits and Courses**

At least 36 graduate credits in G or U/G courses at UWM are required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 701</td>
<td>Industrial Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 715</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Coherent set of approved courses (300-level or above) in application area outside the department *</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Max 6 credits in any combination of independent study or seminar or thesis (MATH 790, MATH 791, MATH 792, MATH 799, or MATH 990)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>36</td>
</tr>
</tbody>
</table>

* Application areas: Physics, Engineering, Business. Students already proficient in an application area are expected to substitute mathematics courses.

Courses are subject to the following regulations:

- Maximum 12 credits below the 500 level from within the Department of Mathematical Sciences;
- Advisor’s prior written approval for every course.

Student also must have demonstrated knowledge of an advanced scientific programming language approved by the Industrial Mathematics Committee.

**Thesis**

A thesis in which the student solves a mathematical problem with an industrial source is required. The student must work with the advisor/major professor from the start of the thesis through its completion, receiving his/her approval. The student must pass an oral defense before three faculty members.

**Time Limit**

Full-time students, without deficiencies, could be expected to complete the program in two years. All degree requirements must be completed within seven years of initial enrollment.

**Special Recommendation**

It is recommended that, by the time of graduation, students master the material presented in the following courses, either prior to enrolling or through coursework:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Mathematical Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>MATH 601</td>
<td>Advanced Engineering Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 602</td>
<td>Advanced Engineering Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 701</td>
<td>Industrial Mathematics I</td>
<td>3</td>
</tr>
</tbody>
</table>
Students must work closely with their advisors to ensure satisfaction of the General, Coursework, and Thesis requirements for timely graduation.

### Approved Industrial Mathematics Courses

#### Applied Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 320</td>
<td>Introduction to Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 321</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 322</td>
<td>Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 371</td>
<td>Introduction to Stochastic Models in Finance</td>
<td>3</td>
</tr>
<tr>
<td>MATH 405</td>
<td>Mathematical Models and Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 423</td>
<td>Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 521 &amp; MATH 522</td>
<td>Advanced Calculus I and Advanced Calculus II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 535</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 581</td>
<td>Introduction to the Theory of Chaotic Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 601 &amp; MATH 602</td>
<td>Advanced Engineering Mathematics I and Advanced Engineering Mathematics II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 614 &amp; MATH 622</td>
<td>Introduction to Analysis I and Introduction to Analysis II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 701 &amp; MATH 702</td>
<td>Industrial Mathematics I and Industrial Mathematics II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 703</td>
<td>Boundary Value Problems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 709</td>
<td>Differential Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 716</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 719</td>
<td>Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 726</td>
<td>Introduction to Functional Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 801</td>
<td>Topics in Applied Mathematics: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 816 &amp; MATH 817</td>
<td>Advanced Ordinary Differential Equations and Advanced Ordinary Differential Equations II</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Numerical Analysis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 313</td>
<td>Linear Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Mathematical Programming and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 415</td>
<td>Introduction to Scientific Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 417</td>
<td>Computational Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 715</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 793</td>
<td>Scientific Computational Laboratory: (Subtitle)</td>
<td>1-2</td>
</tr>
<tr>
<td>MATH 813</td>
<td>Numerical Solution of Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 814</td>
<td>Numerical Solution of Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 815</td>
<td>Topics in Numerical Analysis: (Subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Probability and Statistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 361 &amp; MTHSTAT 362</td>
<td>Introduction to Mathematical Statistics I and Introduction to Mathematical Statistics II</td>
<td>6</td>
</tr>
<tr>
<td>MTHSTAT 461 &amp; MTHSTAT 462</td>
<td>Data Analysis and Graphing Using SAS-I and Data Analysis and Graphing Using SAS-II</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 562</td>
<td>Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 565</td>
<td>Nonparametric Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 568</td>
<td>Multivariate Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 761 &amp; MTHSTAT 762</td>
<td>Mathematical Statistics I and Mathematical Statistics II</td>
<td>6</td>
</tr>
<tr>
<td>MATH 768</td>
<td>Applied Stochastic Processes</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 863</td>
<td>Hypothesis Testing</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 869</td>
<td>Advanced Topics in Mathematical Statistics:</td>
<td>3</td>
</tr>
</tbody>
</table>

Classes in Biostatistics at the Medical College of Wisconsin

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### Mathematics, MS: Statistics

#### Mathematics MS: Statistics (Option C)

Currently enrolled students have the option of following the old or new requirements. Students entering in Fall 2014 or later must complete the new requirements.

#### Overview of Mathematical Sciences Department MS programs

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, industrial mathematics, and atmospheric science.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a Ph.D. as well as the student who wishes to begin a professional career upon completion of the master’s program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Five options for the master’s degree are offered: the standard mathematics option (A), the industrial mathematics option (B), the statistics option (C), the actuarial science option (D), and the foundations of advanced studies option (E). Students who plan to continue for a Ph.D. degree with a focus on mathematics/statistics should elect an option from options A, B, C, and E, or the dual master’s degree option. The department also offers a master’s degree in atmospheric science.
Dual Master’s Degree Option

In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master’s Degree Program in Mathematics. The students enrolled in this program will be able to earn Master's degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page http://uwm.edu/math/graduate/.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following departmental requirements to be considered for admission to the program: completion of three semesters of undergraduate calculus at least 18 credits of acceptable undergraduate preparation beyond calculus; these credits should include courses in probability and statistics equivalent to the sequence MTHSTAT 361/MTHSTAT 362, and courses on advanced calculus equivalent to the sequence MATH 521/MATH 522.

Applicants with deficiencies in probability and statistics may be admitted to the program but will be required to complete the sequence MTHSTAT 361/MTHSTAT 362. Applicants with calculus deficiencies may also be admitted to the program but will be required to complete the sequence MATH 521/MATH 522. Students are expected to make up deficiencies within four enrolled semesters; no course credits earned in making up deficiencies may count toward the degree credit requirement.

Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. Each entering graduate student is assigned a temporary advisor by the Department Graduate Program Coordinator.

Credits and Courses

The minimum requirement is 30 graduate credits. Students must complete the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT 563</td>
<td>Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 761</td>
<td>Mathematical Statistics I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MTHSTAT 762</td>
<td>and Mathematical Statistics II</td>
<td></td>
</tr>
</tbody>
</table>

Select at least one other 560-level MthStat course, such as the following:

- MTHSTAT 562 Design of Experiments
- MTHSTAT 565 Nonparametric Statistics
- MTHSTAT 568 Multivariate Statistical Analysis

Total Credits 24-27

Students who already have taken some of these courses as undergraduates, or equivalent courses at another institution, should choose alternatives from the following list, subject to the advisor's approval:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTHSTAT courses numbered 700 or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 415</td>
<td>Introduction to Scientific Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 417</td>
<td>Computational Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 711</td>
<td>Theory of Functions of a Real Variable I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; MATH 712</td>
<td>and Theory of Functions of a Real Variable II</td>
<td></td>
</tr>
<tr>
<td>MATH 713</td>
<td>Theory of Functions of a Complex Variable I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 714</td>
<td>Theory of Functions of a Complex Variable II</td>
<td></td>
</tr>
<tr>
<td>MATH 721</td>
<td>Abstract Measure and Integration</td>
<td>3</td>
</tr>
<tr>
<td>MATH 768</td>
<td>Applied Stochastic Processes</td>
<td>3</td>
</tr>
<tr>
<td>MATH 771</td>
<td>Theory of Probability</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 596</td>
<td>Actuarial Statistics I: Fitting of Loss Models</td>
<td></td>
</tr>
<tr>
<td>&amp; MTHSTAT 597</td>
<td>and Actuarial Statistics II: Credibility, Risk Measures and Related Topics</td>
<td></td>
</tr>
</tbody>
</table>

Thesis Option

Students have the option of writing a thesis, subject to the advisor's approval. Students who write a thesis are exempt from the Master's Proficiency Exam, and they earn 3 credits toward the degree by enrolling in MATH 790. Students who choose the thesis option must pass an oral defense of the thesis.

Master’s Proficiency Exam

Students who do not complete the thesis option are required to pass a written comprehensive examination that tests basic knowledge of statistical theory and either mathematical analysis or algebra.

Time Limit

Students must complete all degree requirements with 5 years of initial enrollment.
Mathematics, PhD

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, actuarial science, and industrial mathematics. The Department also offers both MS and PhD degrees in atmospheric science.

A student may prepare for a career in teaching at the secondary or college level, and for a career in research in the academic, industrial, government, or business communities.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a Ph.D., as well as the student who wishes to begin a professional career upon completion of the master’s program.

The Department has a vibrant PhD program. Mathematics research specialties available to students include:

- Actuarial Science (http://uwm.edu/math/research/actuarial-science)
- Algebra (http://uwm.edu/math/research/algebra)
- Analysis (http://uwm.edu/math/research/analysis)
- Applied Mathematics (http://uwm.edu/math/research/applied-mathematics)
- Differential Equations (http://uwm.edu/math/research/differential-equations)
- Numerical Analysis (http://uwm.edu/math/research/numerical-analysis)
- Probability (http://uwm.edu/math/research/probability)
- Statistics (http://uwm.edu/math/research/statistics)
- Topology (http://uwm.edu/math/research/topology)

For more details on the Department's research groups and the research interests of its faculty members click here (http://uwm.edu/math/research).

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus departmental requirements as given for admission to the master’s program. A master’s degree is not a prerequisite for admission to this Ph.D. program.

Reapplication
A student who receives the master’s degree must formally reapply for admission to the Graduate School before continuing studies toward the Ph.D.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering graduate student is assigned a temporary advisor by the Department Graduate Program Coordinator.

Credits and Courses
Minimum degree requirement is 54 graduate credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM. The student, in consultation with the major professor, must select both a primary and a secondary area of specialization. The primary area may be chosen from one of the following seven fields:

### Transcript Designated Concentrations

#### Applied Mathematics Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 Credits in Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6 Credits in Complex Analysis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>3 Credits in Real Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>12 Credits in Applied Mathematics</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>3 Credits Outside the Field</td>
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#### Probability and Statistics Field

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td>3 Credits in Complex Analysis</td>
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</tr>
<tr>
<td></td>
<td>6 Credits in Real Analysis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>12 Credits in Probability and Statistics</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>3 Credits in Applied Mathematics</td>
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</table>

#### Actuarial Science Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>6 Credits in Actuarial Science</td>
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</tr>
<tr>
<td></td>
<td>6 Credits in Applied Mathematics</td>
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<tr>
<td></td>
<td>6 Credits in Probability and Statistics</td>
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</tr>
<tr>
<td></td>
<td>6 Credits in Real Analysis</td>
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</tr>
<tr>
<td></td>
<td>3 Credits in Business or Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

For more details on the Department’s research groups and the research interests of its faculty members click here (http://uwm.edu/math/research).

### Non-Transcript Designated Specializations

#### Algebra Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>12 Credits in Algebra</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>3 Credits in Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 Credits in Real Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 Credits in Topology</td>
<td>3</td>
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<tr>
<td></td>
<td>3 Credits in Applied Mathematics</td>
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<tr>
<td></td>
<td>3 Credits Outside the Field</td>
<td>3</td>
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</tbody>
</table>

#### Analysis Field

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3 Credits in Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6 Credits in Complex Analysis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>6 Credits in Real Analysis</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>3 Credits in Topology</td>
<td>3</td>
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<tr>
<td></td>
<td>3 Credits in Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 Credits Outside the Field</td>
<td>3</td>
</tr>
</tbody>
</table>
The secondary area may be chosen from another of these fields or may be chosen from another appropriate department. Minimum course requirements for all work in both areas of specialization require approximately two full years of study.

**Foreign Language**

Each student must pass a written examination in one foreign language; the examination is administered by the Department's Language Committee. Acceptable languages are French, German, and Russian; exceptions may be permitted upon written request of advisor.

**Computer Proficiency**

The student shall pass an examination on a higher programming language and/or other appropriate advanced computer skills; the examinations administered by the Department's Computer Committee. The Computer Committee may accept advanced computer science coursework in lieu of the examination.

**Residence**

The student must meet minimum Graduate School residence requirements.

**Doctoral Preliminary Examination**

When the student is sufficiently prepared — normally when the student has earned 24 credits in specified areas above the 700 level — a doctoral preliminary examination to determine the student's knowledge and achievement is taken. For students in mathematics, the exam evaluates the student's general knowledge of mathematics, as well as the student's knowledge of the major area of concentration. Students must pass this examination to continue in the program. With permission of the examination committee, the student may repeat this examination once. If the student does not have a master's degree in mathematics before this examination, the committee will determine whether the student's performance is sufficient to qualify for the master's degree.

**Doctoral Dissertation Proposal Hearing**

After passing the language requirements and the doctoral preliminary examination, the student participates in a doctoral dissertation proposal hearing. At this hearing, the student is examined on the student's chosen area of research and a dissertation topic is approved.

**Dissertation**

The primary requirement for the Ph.D. in mathematics is the candidate's completion, under the supervision of the Department advisor, of an original and significant mathematical investigation presented in the form of a dissertation. The investigation is to be in the field of algebra, analysis, applied mathematics, probability and statistics, topology. A dissertation for the industrial mathematics field must involve an industrial problem requiring a mathematical solution.

**Dissertation Defense**

The candidate must, as the final step toward the degree, present a colloquium based on the dissertation and must pass an oral examination in defense of the dissertation. If the candidate does not successfully defend a thesis within five years of admission to candidacy, the candidate may be required to take another doctoral preliminary examination and be readmitted to candidacy.

**Time Limit**

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

**Minor Area for Other Ph.D. Majors**

A doctoral student planning a physical science major other than mathematics may fulfill requirements for mathematics as the minor area of concentration by completing 12 credits of approved mathematics courses with a grade of B or better, at least 6 credits of which must be in courses 700 or above.

A doctoral student planning a non-physical science major may fulfill requirements for mathematics as the minor area of concentration by completing 12 credits with a grade of B or better in approved mathematics courses 300 or above.

For additional information on the Ph.D., see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements) page.
**MIDDLE EASTERN AND NORTH AFRICAN STUDIES, UNDERGRADUATE CERTIFICATE**

The Undergraduate Certificate in Middle Eastern and North African Studies (MENA) provides students with a thorough understanding of the languages, cultures, history, and societies of the region.

The Middle East has long played a critical role in global economics and politics. Often portrayed by the media as a place of endless conflict, the Middle East is incredibly complex and made up of numerous nations, each with its own political, religious, geographic, and economic structure and traditions. Student in the MENA certificate program explore this complex region by studying the area's literature, languages, history, politics, religion, and art.

The certificate may be of particular interest to students who plan to enter government service or global business, and complements a number of different majors including history, religious studies, political science, economics, business, geography, foreign languages, and anthropology. The program requires one year of either Arabic or Hebrew language courses.

Many students participate in a study abroad (http://uwm.edu/cie/study-abroad) experience to build on their classroom learning.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

**Eligibility**

The Undergraduate Certificate in Middle Eastern and North African Studies is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as a non-degree student, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who have a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

**Requirements**

The program requires one year of Arabic or Hebrew language courses and a historical survey course. Upper-level courses offer students the opportunity to explore Middle Eastern literature, history, politics, religion, and art in greater depth. Courses totaling 23 credits must be completed with a GPA of 2.750 or better. At least one half of the work for the certificate must be taken at UWM. The Committee for Middle Eastern and North African Studies administers the program and advises students.

In addition to taking courses related to the Middle East and North Africa, students have opportunities to meet and study with Middle Eastern scholars who regularly visit UWM through a number of institutional partnerships with Middle Eastern universities. Students also may take advantage of study abroad programs that offer credit for academic work in the Middle East and North Africa.

Following are the detailed requirements for the certificate. For the specific content and prerequisites of each course, click on the subject code and course number below.

**Middle Eastern Language Sequence**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ARABIC 101</td>
<td>First Semester Arabic</td>
<td>3</td>
</tr>
<tr>
<td>&amp; ARABIC 102</td>
<td>and Second Semester Arabic</td>
<td>3</td>
</tr>
<tr>
<td>HEBR ST 101</td>
<td>First Semester Hebrew</td>
<td>3</td>
</tr>
<tr>
<td>&amp; HEBR ST 102</td>
<td>and Second Semester Hebrew</td>
<td>3</td>
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</tbody>
</table>

**Survey**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
<td>3</td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

At least 12 additional credits selected from the approved electives list, of which at least 9 must be at the 300 level or above. Students must include among their credits selected for section III at least one course in Hebrew studies and one course in Arabic studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTHRO 641</td>
<td>Seminar in Anthropology: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>ARABIC 111</td>
<td>Cultures and Civilizations of the Muslim Middle East</td>
<td>3</td>
</tr>
<tr>
<td>ARABIC 201</td>
<td>Third Semester Arabic</td>
<td>5</td>
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<tr>
<td>ARABIC 202</td>
<td>Fourth Semester Arabic</td>
<td>5</td>
</tr>
<tr>
<td>ARABIC 299</td>
<td>Ad Hoc: (with appropriate subtitle)</td>
<td>1-6</td>
</tr>
<tr>
<td>ARABIC 301</td>
<td>Fifth Semester Arabic</td>
<td>3</td>
</tr>
<tr>
<td>ARABIC 302</td>
<td>Sixth Semester Arabic</td>
<td>3</td>
</tr>
<tr>
<td>ARABIC 499</td>
<td>Ad Hoc: (with appropriate subtitle)</td>
<td>1-6</td>
</tr>
<tr>
<td>ARTHIST 315</td>
<td>Art and Archaeology of Ancient Egypt</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 324</td>
<td>Early Christian and Byzantine Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 327</td>
<td>Caliphs, Emirs, &amp; Kings: Art &amp; Architecture of Medieval Spain</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC/HIST 274</td>
<td>Ancient Egyptian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>CLASSIC 390</td>
<td>Egyptian Mythology</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 533</td>
<td>Seminar in Trends in Modern Literature: (Development of the Arabic Novel)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 247</td>
<td>Literature and Human Experience: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 357</td>
<td>Literature of the French-Speaking World in Translation: (with appropriate subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>
FRENCH 431 | Seminar in Literature of the Francophone World: (with appropriate subtitle) | 3 |
---|---|---|
FRENCH 432 | Seminar in French and Francophone Cultures: (with appropriate subtitle) | 1-3 |
HEBR ST 201 | Third-Semester Hebrew | 4 |
HEBR ST 202 | Fourth-Semester Hebrew | 4 |
HEBR ST 231 | Introduction to the Old Testament/Hebrew Bible | 3 |
HEBR ST 235 | The Dead Sea Scrolls and the Bible | 3 |
HEBR ST 238 | Topics in Hebrew/Jewish Literature, Art, and Culture: (with appropriate subtitle, e.g., "Judaism, Christianity, and Islam") | 3 |
HEBR ST 254 | Studies in Hebrew Culture: (with appropriate subtitle) | 3 |
HEBR ST 261 | Representing the Holocaust in Words and Images | 3 |
HEBR ST 299 | Ad Hoc: (with appropriate subtitle) | 1-6 |
HEBR ST 301 | Modern Hebrew Literature I in Hebrew | 3 |
HEBR ST 302 | Modern Hebrew Literature II in Hebrew | 3 |
HEBR ST 332 | Women in the Bible | 3 |
HEBR ST 368 | Jewish and Christian Responses to the Holocaust | 3 |
HIST 280 | Islamic Civilization: The Formative Period, ca. 500-1258 | 3 |
HIST 282 | The Modern Middle East in the Nineteenth and Twentieth Centuries | 3 |
HIST 319 | The Era of the Crusades | 3 |
HIST 370 | Topics in the History of Religious Thought: (with appropriate subtitle, e.g., "Judaism in the Ancient World") | 3 |
HIST 386 | Africa: The Age of Empires to 1880 | 3 |
HIST 387 | Africa: Imperialism and Independence Since 1880 | 3 |
HIST 401 | Topics in Middle Eastern History: | 3 |
HIST 600 | Seminar in History: (with appropriate subtitle) | 3 |
INTLST 450 | Internship in International Studies (with appropriate subtitle) | 2-6 |
INTLST 550 | Senior Seminar in International Studies: (with appropriate subtitle) | 3 |
JEWISH 261 | Representing the Holocaust in Words and Images | 3 |
JEWISH 321 | The Holocaust and the Politics of Memory | 3 |
JEWISH 368 | Jewish and Christian Responses to the Holocaust | 3 |
PHILOS 461 | Islamic Philosophy and Mysticism | 3 |
POL SCI 329 | African Politics | 3 |
POL SCI 371 | Nationalism and Ethnic Conflict | 3 |

If not taken above.

Contact Information
Current Students contact Associate Professor Caroline Seymour-Jorn, csjorn@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Middle+Eastern+%26+North+African+Studies
Building peace in our community, nation, and world will depend on our ability to work well together to solve problems and pursue opportunities. Our Undergraduate Certificate aims to help students build the foundation in these essential skills and is open to students majoring in any field who wish to explore the meaning of peace, including human welfare and quality of life, as well as the resolutions of different types of political, economic, or social conflicts.

Programs

- Peace Studies and Conflict Resolution, Undergraduate Certificate (p. 1638)

Peace Studies Courses

PEACEST 201 Introduction to Conflict Resolution and Peace
3 cr. Undergraduate.
Violent and peaceful strategies of conflict resolution; viability of various plans for permanent world peace.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PEACEST 219 Topics in Power and Conflict
3 cr. Undergraduate.
Examination of topics concerned with power, conflict, and non-violent methods of conflict resolution.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

PEACEST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2014, Fall 2013, Fall 2009.
Current Offerings: http://uwm.edu/schedule

PEACEST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PEACEST 489 Internship in Peace Studies, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of social sciences in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in social sciences; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

PEACEST 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PEACEST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PEACEST 699 Advanced Independent Study
1-6 cr. Undergraduate.
Advanced level independent work under the supervision of a peace studies faculty or academic staff member.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Retakeable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

The Peace Studies and Conflict Resolution, Undergraduate Certificate is premised on the notion that helping people work together to creatively manage conflict will result in more peaceful and just societies, locally and internationally.

Building peace in our community, nation, and world will depend on our ability to work well together to solve problems and pursue opportunities. The Certificate aims to help students build the foundation in these essential skills, and is open to students majoring in any field who wish to explore the meaning of peace, including human welfare and quality of life, as well as the resolutions of different types of political, economic, or social conflicts.

The certificate can enhance the resume of students going into social work, education, public administration, law, healthcare, international affairs, human resources and global business. The program is
interdisciplinary combining coursework from history, political science, communication, economics, anthropology, and sociology.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Peace Studies and Conflict Resolution Undergraduate Certificate is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. The program leading to the certificate is open to students majoring in any field.

Requirements

A student must complete 18 credits in the program; nine of these must be in advanced courses (300 level and above). All students are required to complete an exit survey before the certificate is awarded. A 2.500 GPA must be achieved in courses prescribed for the certificate. At least one-half of the work for the certificate must be completed at UWM.

Students interested in the Peace Studies and Conflict Resolution Undergraduate Certificate should consult with the coordinator or the advisor to plan a program.

There are three components to the program:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Required</td>
<td>Select two of the following:</td>
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<tr>
<td></td>
<td>PEACEST 201 Introduction to Conflict Resolution and Peace</td>
<td></td>
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<tr>
<td></td>
<td>COMMUN 365 Negotiation Skills Workshop</td>
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<td></td>
<td>COMMUN 665 Introduction to Mediation</td>
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<tr>
<td></td>
<td>COMMUN 675 Communication in International Mediation and Peacebuilding</td>
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<tr>
<td></td>
<td>POL SCI 175 Introduction to International Relations</td>
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</tr>
</tbody>
</table>

Required Fieldwork

Select one of the following: ¹

- Internship
- Study Abroad
- Independent Study

Electives

Select 9 credits

Total Credits 18

¹ The purpose of this requirement is to enable the student to engage in peace studies through "practical" experience or research. The student should be engaged in the "practice of peace" through community service, conflict identification and education, environmental awareness, governmental politics, or social change. The area of study must be approved by the coordinator of the peace studies certificate and must meet the requirements of the department through which it is being completed. The fieldwork requirement may be fulfilled in one of three ways: an internship, study abroad, or independent study.

Electives

Students are encouraged to construct an area of concentration from their elective credits. Suggested areas of concentration may be geographic and/or thematic, such as:

- World regions and countries
- World religions and practices
- Conflict resolution skills
- International relations
- Sustainable development
- Peace studies/education
- Environmental studies
- Social change/social justice
- Economic development

The following list contains of approved elective courses. For the specific content and prerequisites of each course, click on the subject code and course number. Additional courses may be approved with the consent of the Peace Studies and Conflict Resolution Program coordinator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AFRICOL 265</td>
<td>Psychological Effects of Racism</td>
<td>3</td>
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<tr>
<td>AFRICOL 300</td>
<td>Urban Violence</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 322</td>
<td>Order and Disorder: The Quest for Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>CES 490</td>
<td>Senior Seminar: Conservation and Environmental Science</td>
<td>1</td>
</tr>
<tr>
<td>COMMUN 192</td>
<td>First-Year Seminar: (Communication and Conflict)</td>
<td>3</td>
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<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
<td>3</td>
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<tr>
<td>COMMUN 363</td>
<td>Communication in Human Conflict ¹</td>
<td>3</td>
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<tr>
<td>COMMUN 365</td>
<td>Negotiation Skills Workshop</td>
<td>3</td>
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<tr>
<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
<td>3</td>
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<tr>
<td>COMMUN 631</td>
<td>Current Topics in Interpersonal Communication/Conflict Management: (Genocide and Communication)</td>
<td>3</td>
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<tr>
<td>COMMUN 662</td>
<td>Seminar in Communication: (Communication and Civility)</td>
<td>3</td>
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<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
<td>3</td>
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<tr>
<td>COMPLIT 230</td>
<td>Literature and Society (Existentialism or Children/Youth as War Casualties)</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<td>------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion:</td>
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<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Subtitles:</td>
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<tr>
<td></td>
<td>Contemporary Women Writers and the Ethics of Violence</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gender and the Historical Novel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Literature and Human Rights</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Women and War in Latin America and the Caribbean</td>
<td></td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film: (Film and War)</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 365</td>
<td>Literatures and Cultures of the Americas: (Border Narratives)</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 416</td>
<td>Domestic Violence Research</td>
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<tr>
<td>CRM JST 420</td>
<td>Violence and the Criminal Justice System</td>
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<td>CRM JST 592</td>
<td>Critical Issues in Criminal Justice: (Restorative Justice)</td>
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<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
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<td>ED POL 411</td>
<td>Conflict and Change in Community-Based Organizations</td>
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<td>ED POL 520</td>
<td>Peace Education</td>
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<td>ED POL 521</td>
<td>Nonviolence in Education</td>
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<td>ED POL 522</td>
<td>Abusive Relationships: Community Problems, Community Solutions</td>
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<td>ED POL 579</td>
<td>Current Topics in Cultural Foundations of Education: (Antiracist Education)</td>
<td>1-6</td>
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<td>ENGLISH 150</td>
<td>Multicultural America</td>
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<td>ENGLISH 192</td>
<td>First-Year Seminar: (Vietnam in American Culture)</td>
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<td>ENGLISH 247</td>
<td>Literature and Human Experience:</td>
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<td>Literature of the Ecological Vision</td>
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<td>Whitman and Ginsberg - Liberating American Bards</td>
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<td>ENGLISH 293</td>
<td>Literature and Media:</td>
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<td>ETHNIC 255</td>
<td>Migration and Gender: Starbucks, Sex Trafficking, and Nannies</td>
<td>3</td>
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<td>ETHNIC 375</td>
<td>Global Violence, Disease, and Death</td>
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<td>GEOG 120</td>
<td>Our Physical Environment</td>
<td>3</td>
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<td>GEOG 125</td>
<td>Introduction to Environmental Geography</td>
<td>3</td>
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<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
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<td>GLOBAL 101</td>
<td>Introduction to Global Studies I: People and Politics</td>
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<td>GLOBAL 201</td>
<td>Introduction to Global Studies II: Economics and the Environment</td>
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<td>GLOBAL 202</td>
<td>Introduction to Global Studies III: Globalization and Technology</td>
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<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
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<td>GLOBAL 361</td>
<td>Environment and Sustainability</td>
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<td>GLOBAL 371</td>
<td>Rethinking Global Security</td>
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<td>GLOBAL 442</td>
<td>Humanitarianism in Global Perspective</td>
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<td>GLOBAL 447</td>
<td>The Global Politics of Human Rights</td>
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<td>GLOBAL 451</td>
<td>Access, Security, and Intercultural Contexts in Global Communications</td>
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<td>GLOBAL 461</td>
<td>The Politics and Policy of Sustainability</td>
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<td>GLOBAL 471</td>
<td>Strategies for Realizing Security in Global Contexts</td>
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<td>GLOBAL 499</td>
<td>Ad Hoc: (with appropriate subtitle)</td>
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<td>GLOBAL 541</td>
<td>Cross-Cultural Management</td>
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<td>GLOBAL 551</td>
<td>Global Communications Capstone: Future Trends</td>
<td>3</td>
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<td>GLOBAL 561</td>
<td>Preparing for Sustainable Peacebuilding and Social Change</td>
<td>3</td>
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<td>HCA/BMS/COMSDIS/KIN/OCCTHPY/THERREC 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
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<td>HIST 150</td>
<td>Multicultural America</td>
<td>3</td>
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<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues:</td>
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<td>Civil Strife in Northern Ireland</td>
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<td>HIST 249</td>
<td>The Second World War in Europe</td>
<td>3</td>
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<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
<td>3</td>
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<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
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<td>HIST 286</td>
<td>The Korean War</td>
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<td>HIST 287</td>
<td>The Vietnam War</td>
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<td>HIST 358</td>
<td>The Jews of Modern Europe: History and Culture</td>
<td>3</td>
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<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
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<td>HIST 364</td>
<td>The Holocaust: Anti-Semitism &amp; the Fate of Jewish People in Europe, 1933-45</td>
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<td>HIST 370</td>
<td>Topics in the History of Religious Thought</td>
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<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
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<td>HEBR ST 238</td>
<td>Topics in Hebrew/Jewish Literature, Art, and Culture:</td>
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<td>HEBR ST 254</td>
<td>Studies in Hebrew Culture:</td>
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<td>HIST 440</td>
<td>History of the American Working Classes</td>
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<td>HIST 594</td>
<td>Methods and Theory in the Historical Study of Religion: (Women, War, and Religion in Early Medieval Europe)</td>
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<td>HIST 600</td>
<td>Seminar in History:</td>
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<td>Honors Seminar: The Shaping of the Modern Mind: (War Stories – Art and Experience from the Front Lines)</td>
<td>3</td>
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<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
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<td>JAMS 661</td>
<td>Seminar in Media Communication and Society: (War and the Media)</td>
<td>3</td>
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<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
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<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace 1</td>
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<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
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<td>PHILOS 244</td>
<td>Ethical Issues in Health Care:</td>
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<td>PHILOS 271</td>
<td>Philosophical Traditions: (Western Great Lakes American Indian Philosophy)</td>
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<td>PHILOS 355</td>
<td>Political Philosophy</td>
<td>3</td>
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<td>PHILOS 475</td>
<td>Special Topics in Indian Religious Thought: (Gandhi and Nonviolence)</td>
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<tr>
<td>POL SCI 175</td>
<td>Introduction to International Relations 1</td>
<td>3</td>
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<td>POL SCI 316</td>
<td>International Law</td>
<td>3</td>
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<td>POL SCI 328</td>
<td>The Arab-Israeli Conflict</td>
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<td>POL SCI 333</td>
<td>Seminar in Comparative Politics: (Collective Violence and the State)</td>
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<td>POL SCI 337</td>
<td>International Organization and the United Nations</td>
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<td>POL SCI 339</td>
<td>European Integration</td>
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<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
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<td>POL SCI 359</td>
<td>Problems of American Foreign Policy</td>
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<td>POL SCI 361</td>
<td>History of International Political Thought</td>
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<td>Theories and Methods in International Politics</td>
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<td>International Conflict</td>
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<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
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<td>POL SCI 419</td>
<td>Constitutional Interpretation</td>
<td>3</td>
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<td>POL SCI 464</td>
<td>Sex, Gender, and the Law</td>
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<td>PSYCH 611</td>
<td>Current Topics: (Psychology of Conflict, War, and Peace)</td>
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<td>Multicultural America</td>
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<td>WGS 201</td>
<td>Introduction to Women’s and Gender Studies: A Humanities Perspective</td>
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1 If not selected above.

**Contact Information**

Current Students contact Professor Rachel Buff, rbuff@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
PHILOSOPHY

A problem may be called "philosophical" when it has depth and universality, far-reaching theoretical ramifications, human importance, and no easy solution. Philosophical problems constitute the subject matter of philosophy.

Academic courses in philosophy have the value of introducing the crucial problems in a systematic way, exposing students to fruitful methods for attacking them, to models of solid, hard-hitting argumentation, and to a literature ranging from Plato's Dialogues to current professional journals. The relevance of philosophy is nowhere better exhibited than in the distinctions ignored, the arguments overlooked, and the errors repeated by persons unfamiliar with that literature.

Programs

• Ethics, Values, and Society (CEVS), Undergraduate Certificate (p. 1649)
• Philosophy, BA (p. 1651)
• Philosophy, MA (p. 1654)
• Philosophy, Minor (p. 1656)

Philosophy Courses

PHILOS 101 Introduction to Philosophy:
3 cr. Undergraduate.
Introduction to the philosophical thinking through examination of such topics as Plato's and Aristotle's contribution to Western civilization; free will and moral responsibility; God, morality, and knowledge.
Prerequisites: none.
Course Rules: May not be retaken for add'l cr; may be repeated for higher grade.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PHILOS 111 Introduction to Logic - Critical Reasoning
3 cr. Undergraduate.
Students learn a broad variety of fundamental logical methods - techniques used to identify, analyze, model, evaluate, and criticize different types of real-world reasoning.
Prerequisites: ACT math subscore of 18 or higher, or Math Placement Level 10, which is earned by any of the following: (a) Level 10 on Math Placement Test; (b) grade of C or better in Math 090; or (c) grade of D in Math 094.
Course Rules: Jointly offered w/ Math 111; they count as repeats of one another.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PHILOS 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PHILOS 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 204 Introduction to Asian Religions
3 cr. Undergraduate.
Philosophy of Asian religions; emphasis on the Indian experience of Hinduism and Buddhism, and the Chinese experience of Buddhism, Confucianism, and Taoism.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PHILOS 207 Religion and Science
3 cr. Undergraduate.
The alleged conflict between science and religion: case histories, analysis of the issues, implications for the concepts of religious beliefs and scientific knowledge.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PHILOS 211 Elementary Logic
3 cr. Undergraduate.
Introduction to traditional and modern logic; the concepts of argument, validity, proof, fallacy, persuasion, and reasoning; the development of certain practical skills.
Prerequisites: none.
General Education Requirements: HU, QLB
Current Offerings: http://uwm.edu/schedule

PHILOS 212 Modern Deductive Logic
3 cr. Undergraduate.
A second course in symbolic logic that develops the skills in symbolic translation and proof construction acquired in Philos 211, investigates more abstractly the properties of formal systems of proof.
Prerequisites: grade C or better in Philos 211(P).
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule
PHILOS 213 Introduction to the Philosophy of Science
3 cr. Undergraduate.
Course for beginning students dealing with such problems as induction vs deduction; hypotheses and theories and their relation to observation; explanation and prediction.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PHILOS 215 Belief, Knowledge, and Truth: An Introduction to the Theory of Knowledge
3 cr. Undergraduate.
Grounds of rational belief and knowledge and methods used for obtaining them, with particular emphasis on problems of evidence and truth.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHILOS 217 Introduction to Metaphysics
3 cr. Undergraduate.
Introduction to the major problems of metaphysics, such as the mind-body problem, the free will-determinism issue, and the nature of causality.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2017, Fall 2014, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

PHILOS 221 Topics in Philosophy:
3 cr. Undergraduate.
A course for beginning students dealing with such philosophical problems as freedom of will, skepticism, or a historical figure or movement.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PHILOS 235 Philosophical Aspects of Feminism
3 cr. Undergraduate.
A course for beginning students dealing with selected philosophical issues underlying feminist ideas and problems.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PHILOS 237 Technology, Values, and Society
3 cr. Undergraduate.
Discussion of controversies over whether modern technology is a progressive or regressive force in human life; impact of technology on individual and institutional values.
Prerequisites: none.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PHILOS 241 Introductory Ethics
3 cr. Undergraduate.
Development of moral ideas. Criticism of ethical theories and of social institutions such as state, property, and family.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PHILOS 242 Introduction to Social and Political Philosophy
3 cr. Undergraduate.
Opposing philosophical views about man and his political and social life.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2015, Spring 2014, Fall 2011, Spring 2009.
Current Offerings: http://uwm.edu/schedule

PHILOS 244 Ethical Issues in Health Care:
3 cr. Undergraduate.
Study of ethical issues facing patients, providers, and public policy planners: e.g., ethical response to terminal illness, equity in health care delivery.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PHILOS 245 Critical Thinking and the Law:
3 cr. Undergraduate.
Development of critical and analytical skills using legal reasoning as a model and law texts as sources.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PHILOS 250 God, Faith and Reason
3 cr. Undergraduate.
Major questions: What is God? Can God’s existence (or non-existence) be proved? How? What is religious faith? Is faith rational? Is faith ethical or wise?
Prerequisites: none.
General Education Requirements: HU
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule
PHILOS 253 Philosophy of the Arts
3 cr. Undergraduate.
The creation, appreciation, and criticism of works of art. Sources and use of standards.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Summer 2014, Fall 2012, Fall 2011, Spring 2010.
Current Offerings: http://uwm.edu/schedule

PHILOS 271 Philosophical Traditions:
3 cr. Undergraduate.
Survey of one significant philosophical tradition.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 272 Philosophical Classics:
1 cr. Undergraduate.
Intensive study of one short work of special importance in the philosophic literature.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 289 Internship in Philosophy, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of philosophy in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in philos; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Fall 2017, Spring 2017, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHILOS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined, and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Spring 2017, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHILOS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PHILOS 303 Mind and Knowledge
3 cr. Undergraduate/Graduate.
Studies the natures of action, belief and knowledge and the constraint that knowledge imposes on responsible action and belief, both in individuals and across society.
Prerequisites: jr st; Philos 101(P) or 215(P).
Current Offerings: http://uwm.edu/schedule

PHILOS 317 Metaphysics
3 cr. Undergraduate/Graduate.
Study of perennial philosophical issues about the nature of the world and our relation to it; realism, idealism, causality, the mind-body problem, time, truth.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

PHILOS 324 Philosophy of Science
3 cr. Undergraduate/Graduate.
Study of traditional and recent views about the nature, aim and ways of evaluating scientific theories, with reference to both the natural and social sciences.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Spring 2018, Fall 2014, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

PHILOS 332 Philosophical Problems:
3 cr. Undergraduate.
Specific philosophical topic or issue, such as contemporary aesthetics, personal identity, the mind-body problem, the nature of beauty, equality, the just-war doctrine.
Prerequisites: jr st; 3 cr in philos.
Course Rules: Not open for cr to students w/cr in Philos 381 w/similar subtitle. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 335 Philosophy of Biology
3 cr. Undergraduate/Graduate.
Philosophical study of topics in the biological sciences, such as evolutionary explanations, genetic determinism, the definition of life, what constitutes a biological individual.
Prerequisites: jr st; 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 337 Environmental Ethics
3 cr. Undergraduate/Graduate.
Theories of environmental ethics, practical application. Responsibilities to nature/future generations; moral value/status of environment and organisms; philosophical issues concerning environmental studies and ecology.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHILOS 341 Modern Ethical Theories
3 cr. Undergraduate.
Ethical theories and problems as discussed in the late nineteenth, twentieth, and twenty first-centuries.
Prerequisites: jr st; 3 cr in philos; satisfaction of OWC-A.
General Education Requirements: OWC-B
Current Offerings: http://uwm.edu/schedule
PHILOS 349 Great Moral Philosophers
3 cr. Undergraduate/Graduate.
Major themes of moral philosophy from Plato and Aristotle to Bentham and Mill, with critical study of the outstanding works.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Fall 2012, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

PHILOS 350 Introduction to the Comparative Study of Religion
3 cr. Undergraduate/Graduate.
Analysis of the nature of religion, of various comparative typological classifications and methodological approaches; basic problems in understanding the varieties of religious experience and expression.
Prerequisites: jr st, Philos 204(P), Philos/Hist/Hebr St 275(P) or Anthro 203(P).
Current Offerings: http://uwm.edu/schedule

PHILOS 351 Philosophy of Mind
3 cr. Undergraduate/Graduate.
Critical study of the nature of mind and its relation to body and matter, with emphasis on recent advances in philosophy and psychology.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Fall 2015, Fall 2012, Spring 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule

PHILOS 355 Political Philosophy
3 cr. Undergraduate/Graduate.
Philosophical doctrines involved in justification of political decisions; analysis of fundamental concepts such as the common good, authority, justice, natural law, and natural rights.
Prerequisites: jr st, Philos 242(P) or a course in ethics.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHILOS 358 Action, Will, and Freedom
3 cr. Undergraduate/Graduate.
The nature of the will, agency, intentional action, and the problem of free will and determinism.
Prerequisites: jr st, 3 cr philos; or grad st.
Current Offerings: http://uwm.edu/schedule

PHILOS 360 Philosophy of Perception
3 cr. Undergraduate/Graduate.
Major issues in the philosophy of perception: the nature of sensation, perception and inference, the relationship of perception and belief.
Prerequisites: jr st, 3 cr in Philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 381 Honors Seminar:
3 cr. Undergraduate.
Intensive study of selected philosophers, movements, or philosophical problems.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PHILOS 384 The Philosophy of Law
3 cr. Undergraduate/Graduate.
The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.
Prerequisites: jr st; 3 cr philos or previous course in political theory or law studies recom.
Course Rules: Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2014.
Current Offerings: http://uwm.edu/schedule

PHILOS 430 Great Thinkers of the Ancient Period
3 cr. Undergraduate/Graduate.
An examination of, and engagement with, the thought of some of the major philosophers of the ancient period, including the Pre-Socratics, Plato, and Aristotle.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHILOS 431 History of Medieval Philosophy
3 cr. Undergraduate/Graduate.
Critical and historical examination of writings of medieval philosophers such as Augustine, Anselm, Aquinas, Duns Scotus, Ockham, Al Farabi, Maimonides.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 432 Great Thinkers of the Modern Period
3 cr. Undergraduate/Graduate.
An examination of the thought of representative philosophers of the 17th and 18th centuries.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 433 Nineteenth-Century Philosophers
3 cr. Undergraduate/Graduate.
Analysis of existentialist thinkers such as Kierkegaard, Nietzsche, and others. The conflict of idealistic, materialistic, and irrationalist philosophies of the nineteenth century and their influence on its social, literary, and religious movements.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Fall 2012, Fall 2010, Spring 2009, Fall 1995.
Current Offerings: http://uwm.edu/schedule

PHILOS 434 Survey of Contemporary Philosophy
3 cr. Undergraduate/Graduate.
Comparison of problems and solutions dealt with by currently active movements and philosophers, including Carnap, Croce, Dewey, Heidegger, Husserl, Moore, Russell, Sartre, and Wittgenstein.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 435 Existentialism
3 cr. Undergraduate/Graduate.
Analysis of existentialist thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, and Merleau-Ponty.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

http://uwm.edu/schedule
PHILOS 437 Phenomenology
3 cr. Undergraduate/Graduate.
Husserl's phenomenological method and its impact on recent continental
philosophy, e.g. Heidegger, Sartre, Merleau-Ponty.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 461 Islamic Philosophy and Mysticism
3 cr. Undergraduate/Graduate.
Problems central to Islamic theology, philosophy, and mysticism, and
their relations to the teachings of Islam.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 474 Contemporary Religious Thought:
3 cr. Undergraduate/Graduate.
Analysis of two or more contemporary religious thinkers (e.g., Buber,
Heschel, Tillich, Barth, Bulmann, death-of-God theologians, Moltmann,
Pannenberg, Rahner, Chardin). Difficulties and objections are discussed.
Prerequisites: jr st, 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 475 Special Topics in Indian Religious Thought:
3 cr. Undergraduate/Graduate.
Intensive study in such topics as perception, skepticism, induction,
epistemology and philosophy of science.
Prerequisites: jr st, either Philos 212(P) or 6 cr math at the 300-level or
above; or grad st.
Course Rules: May be retaken w/chg in topic & cons advisor & instr to 6
cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 481 Social and Political Philosophy
3 cr. Undergraduate/Graduate.
Recent developments in the philosophy of social and political
philosophy, e.g. political philosophy, social theory, legal theory.
Prerequisites: jr st & 3 cr in philos.
Last Taught: Fall 2015, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

PHILOS 489 Internship in Philosophy, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of philosophy in a business,
organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in philos; 2.25 gpa; cons
supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in
internship. May be retaken to 6 cr max.
Last Taught: Spring 2010, Fall 1998.
Current Offerings: http://uwm.edu/schedule

PHILOS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PHILOS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PHILOS 511 Symbolic Logic
3 cr. Undergraduate/Graduate.
First-order predicate calculus; formal properties of theoretical systems;
chief results of modern mathematical logic; advanced topics such as
completeness and computability.
Prerequisites: jr st, either Philos 212(P) or 6 cr math at the 300-level or
above; or grad st.
Course Rules: Jointly-offered w/& counts as repeat of CompSci/Math
511.
Last Taught: Fall 2015, Fall 2013, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

PHILOS 516 Language and Meaning
3 cr. Undergraduate/Graduate.
Philosophical issues of the semantics, syntax and pragmatics of
language; relations between philosophy of language and metaphysics,
epistemology and philosophy of science.
Prerequisites: jr st, either Philos 101(P) or 432(P).
Last Taught: Fall 2015, Fall 2012, Spring 2012, Fall 2008.
Current Offerings: http://uwm.edu/schedule

PHILOS 517 Special Problems in the Philosophy of Language and
Linguistics:
3 cr. Undergraduate/Graduate.
In depth study of one or more topics concerning the nature of language;
its acquisition, use and formal structures.
Prerequisites: jr st; 6 cr math at the 300-level or above.
Course Rules: May be retaken w/chg in topic & cons advisor & instr to 6
cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 518 Philosophy of History
3 cr. Undergraduate/Graduate.
The nature of historical knowledge and belief in terms of the justification
of historical narration, explanation and prediction.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 519 Special Problems in Metaphysics and Epistemology:
3 cr. Undergraduate/Graduate.
Intensive study in such topics as perception, skepticism, induction,
mathematical knowledge, universals, causality, substance, determinism,
possibility.
Prerequisites: jr st & 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
PHILOS 520 Philosophy of the Natural Sciences
3 cr. Undergraduate/Graduate.
The nature and function of science; the logic of scientific method; clarification of such concepts as cause, law, theory, probability, determinism, and teleology.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 521 Philosophy of the Social Sciences
3 cr. Undergraduate/Graduate.
The nature and scope of the social sciences; explanatory, interpretive, and normative concerns in theory construction, their interconnection, and their methodological implications.
Prerequisites: jr st & 3 cr in philos.
Current Offerings: http://uwm.edu/schedule

PHILOS 522 Special Topics in the Philosophy of Science
3 cr. Undergraduate/Graduate.
Consideration of one or more of the following: logic of theory construction, theoretical entities, measurement, nature of laws, conventionalism, operationalism, and induction.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

PHILOS 535 Philosophical Topics in Feminist Theory
3 cr. Undergraduate/Graduate.
Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised.
Prerequisites: jr st, a course in philos or women's stds.
Course Rules: May be retaken w/chg in topic to 6 cr max. Philos 535 & Wmns 535 are jointly offered; with same topic, they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2014, Spring 2010.
Current Offerings: http://uwm.edu/schedule

PHILOS 542 Punishment and Responsibility
3 cr. Undergraduate/Graduate.
Views on the moral permissibility of punishment and other forms of penalization; the foundations of a general theory of moral responsibility.
Prerequisites: jr st & 3 cr in philos. Philos 241(R) or social science background recom.
Current Offerings: http://uwm.edu/schedule

PHILOS 551 Aristotle
3 cr. Undergraduate/Graduate.
Intensive study of one or more of Aristotle's major works or of themes and problems in Aristotle's thought. Particular attention to careful analysis of the texts.
Prerequisites: jr st; 3 cr philos; Philos 430(R).
Current Offerings: http://uwm.edu/schedule

PHILOS 554 Special Topics in the History of Modern Philosophy
3 cr. Undergraduate/Graduate.
Intensive study of a philosopher, movement, or historical problem in modern philosophy, e.g., Spinoza, British empiricists, Locke's influence upon the Enlightenment, overthrow of Hegelian idealism.
Prerequisites: jr st; 3 cr philos; Philos 432(R); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHILOS 555 Recent Philosophy
3 cr. Undergraduate/Graduate.
Intensive study of one or more philosophers or philosophical movements of the recent past.
Prerequisites: jr st; 3 cr philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 562 Special Topics in Ethics and Social and Political Philosophy
3 cr. Undergraduate/Graduate.
Intensive study of issues such as the concept of law, punishment, liberty, civil disobedience, the public good, and the applicability of scientific method to social issues.
Prerequisites: jr st & 3 cr in philos.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 5681 Seminar in Advanced Topics
3 cr. Undergraduate/Graduate.
Seminar on a philosopher, philosophical movement, issue, or problem for majors and graduate students. Research papers required. Additional prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: sr st & 12 cr in philos at 300-level or above; or grad st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PHILOS 685 Senior Capstone Research Seminar
3 cr. Undergraduate.
Seminar study of a philosopher, philosophical movement, text, or topic for senior philosophy majors. Research paper and presentation required.
Prerequisites: sr st; declared Philos major; or cons instr.
Course Rules: Satisfies L&S research req. May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 689 Independent Work
2-3 cr. Undergraduate.
See Advanced Independent Work, undergrad bulletin.
Prerequisites: jr st; 3.0 in major or 3.0 overall gpa, & writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 9 cr max. Only 6 cr count toward Philos major. No more than 3 cr with any one instr except with writ cons dept.
Current Offerings: http://uwm.edu/schedule
PHILOS 712 Fundamentals of Formal Logic
3 cr. Graduate.
A study of basic aspects of contemporary formal logic.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PHILOS 756 Seminar in Major Movements in Philosophical Thought:
3 cr. Graduate.
Intensive study of school or movement such as continental rationalism,
empiricism; existentialism, phenomenology, etc. Specific topic and any
additional prerequisites announced in schedule of classes each time
course is offered.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 758 Seminar in Major Philosophers:
3 cr. Graduate.
Intensive study of the thought or system, or an important part of the
thought or system, of a major figure in philosophy. Specific topics and
any additional prerequisites announced in schedule of classes each time
course is offered.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

PHILOS 790 Seminar in Epistemology:
2-3 cr. Graduate.
Specific topics and any additional prerequisites announced in schedule of
classes each time course is offered.
Prerequisites: grad st; & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 911 Seminar in Logic:
2-3 cr. Graduate.
Specific topics and any additional prerequisites announced in Timetable
each time course is offered.
Prerequisites: grad st & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2008.
Current Offerings: http://uwm.edu/schedule

PHILOS 920 Seminar in the Philosophy of Science:
2-3 cr. Graduate.
Specific topics and any additional prerequisites announced in Timetable
each time course is offered.
Prerequisites: grad st & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 941 Seminar in Ethics and Social and Political Philosophy:
2-3 cr. Graduate.
Specific topics and any additional prerequisites announced in Timetable
each time course is offered.
Prerequisites: grad st & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHILOS 960 Seminar in Metaphysics:
2-3 cr. Graduate.
Specific topics and any additional prerequisites announced in Timetable
each time course is offered.
Prerequisites: grad st & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

PHILOS 990 Thesis
3 cr. Graduate.
Prerequisites: grad st in option B or in Language & Linguis concentration;
cons major prof & committee.
Course Rules: Retakable only once in option B. Not retakable by students
in Language & Linguis concentration.
Current Offerings: http://uwm.edu/schedule

PHILOS 999 Advanced Independent Study
1-3 cr. Graduate.
Prerequisites: grad st & cons dept chair.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
Faculty

Name                      Rank                  Degree   School                        Graduate Faculty   Emeritus Faculty
Margaret L. Atherton      Distinguished Professor PhD        Brandeis University          ✔                         ✔
Miren Boehm               Associate Professor       PhD        University of California-Irvine ✔                         ✔
William Bristow           Associate Professor       PhD        Harvard University           ✔                         ✔
Luca Ferrero              Associate Professor       PhD        Harvard University           ✔                         ✔
Bernard L. Gendron        Professor Emerita         PhD        ✔                          ✔                         ✔
Carl G. Hedman            Professor Emerita         PhD        ✔                          ✔                         ✔
Edward Hinchman           Associate Professor       PhD        University of Michigan-Ann Arbor ✔                         ✔
Stanislaus Husi           Assistant Professor        PhD        Rice University             ✔                         ✔
Haig Khatchadourian       Professor Emerita         PhD        ✔                          ✔                         ✔
John L. Koethe            Distinguished Professor Emeritus PhD        ✔                          ✔                         ✔
Stephen Leeds             Distinguished Professor PhD        Massachusetts Institute of Technology ✔                         ✔
Michael N. Liston         Associate Professor       PhD        University of California-San Diego ✔                         ✔
Fabrizio G. Mondadori    Professor Emerita         PhD        ✔                          ✔                         ✔
Walter G. Neveel Jr.      Professor Emerita         PhD        ✔                          ✔                         ✔
Blain Neufeld             Associate Professor       PhD        University of Michigan-Ann Arbor ✔                         ✔
Nataliya Palatnik         Visiting Professor        PhD        Harvard University           ✔                         ✔
Robert A. Schwartz        Distinguished Professor PhD        University of Pennsylvania ✔                         ✔
Julius O. Sensat          Professor Emerita         PhD        ✔                          ✔                         ✔
Joshua Spencer            Assistant Professor        PhD        University of Rochester      ✔                         ✔
Richard Tierney           Associate Professor        PhD        Columbia University          ✔                         ✔
William J. Wainwright     Distinguished Professor Emeritus PhD        ✔                          ✔                         ✔
Raymond L. Weiss          Professor Emerita         PhD        ✔                          ✔                         ✔
Andrea Westlund           Associate Professor        PhD        University of Michigan-Ann Arbor ✔                         ✔

Ethics, Values, and Society (CEVS), Undergraduate Certificate

The Undergraduate Certificate in Ethics, Values, and Society (CEVS) is an academic program for undergraduates to explore questions about ethics, politics, and social justice across topics and subject areas. We believe that ethics and values are an integral part of every major and discipline. In particular, the Certificate enables students to combine more practical and applied inquiries into ethical and social/political issues (perhaps pursued in the student’s major) with grounding in the theoretical foundations of such inquiries.

The grounding in the main theories of ethics and political philosophy provided in the Foundational Philosophy Courses in the Certificate will add depth and richness to the student’s studies in other, more applied and content-specific classes.

Certificate courses are organized around five themes with which most of the courses can be associated. Students are encouraged (not required) to select their Certificate courses with a thematic focus in mind:

1. **Institutions:** This theme concerns questions of ethics and justice in political, economic, legal, educational, and other institutions. Issues regarding international justice and human rights are also covered by this theme.

2. **Culture and Identity:** This theme explores and critiques conceptions of ethics and justice in relation to issues of culture and identity, including issues concerning class, race, gender, and sexual orientation.

3. **Environment:** This theme covers the just distribution and use of environmental resources, as well as the ethical treatment of non-human animals.

4. **Health:** This theme covers the just distribution and use of health resources, problems in bioethics, and related issues.

5. **Information Ethics:** This theme examines ethical issues regarding media and the use of information technology.

**Eligibility**

The Undergraduate Certificate in Ethics, Values, and Society is meant to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM and to students who previously have received a bachelor’s degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.
Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits (at least 6 courses) in approved CEVS courses, of which at least 12 credits must be in Letters and Science courses, with 6 of those at the 300 level or above. At least 12 credits must be earned in residence at UWM, and at least 9 of the credits taken in residence must be at the 300 level or above. No more than 12 credits from any one department may count toward the certificate. Courses for the certificate may not be taken on a credit/no credit bases. The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHILOS 241</td>
<td>Introductory Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 341</td>
<td>Modern Ethical Theories</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 349</td>
<td>Great Moral Philosophers</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 242</td>
<td>Introduction to Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 355</td>
<td>Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHILO 384</td>
<td>The Philosophy of Law</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 461</td>
<td>Media Ethics</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 491</td>
<td>Honors Seminar: (Controlling Dissent)</td>
<td>3</td>
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<tr>
<td>JEWISH/HEBR ST 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3</td>
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<tr>
<td>JEWISH 321</td>
<td>The Holocaust and the Politics of Memory</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH/HEBR ST 368</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 449</td>
<td>Modern Jewish Thought</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 235</td>
<td>Philosophical Aspects of Feminism</td>
<td>3</td>
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<tr>
<td>PHILOS 237</td>
<td>Technology, Values, and Society</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 243</td>
<td>Moral Problems:</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 244</td>
<td>Ethical Issues in Health Care:</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 337</td>
<td>Environmental Ethics</td>
<td>3</td>
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<tr>
<td>PHILOS 435</td>
<td>Existentialism</td>
<td>3</td>
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<tr>
<td>PHILOS 535</td>
<td>Philosophical Topics in Feminist Theory</td>
<td>3</td>
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<tr>
<td>PHILOS 542</td>
<td>Punishment and Responsibility</td>
<td>3</td>
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<tr>
<td>PHILOS 562</td>
<td>Special Topics in Ethics and Social and Political Philosophy</td>
<td>3</td>
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<tr>
<td>SOCIOL 450</td>
<td>Environmental Sociology</td>
<td>3</td>
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<tr>
<td>TRNSLTN 411</td>
<td>Ethics and Procedures in Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>WGS 150</td>
<td>Multicultural America</td>
<td>3</td>
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<tr>
<td>WGS 200</td>
<td>Introduction to Women's and Gender Studies: A Social Science Perspective</td>
<td>3</td>
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<tr>
<td>WGS 201</td>
<td>Introduction to Women's and Gender Studies: A Humanities Perspective</td>
<td>3</td>
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<tr>
<td>WGS 300</td>
<td>Gender and Spirituality:</td>
<td>3</td>
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<td>WGS 301</td>
<td>Queer Theory</td>
<td>3</td>
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<tr>
<td>WGS 302</td>
<td>Gendered Bodies:</td>
<td>3</td>
</tr>
</tbody>
</table>

The capstone requirement is fulfilled through a 500-600 level undergraduate seminar focused on issues of ethics, value, and/or social justice. An appropriate seminar will be offered in the Philosophy Department at least once per academic year.

1 Electives

Select from among the following courses that focus substantially on themes of ethics, value, justice, and the like.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 261</td>
<td>Survey of African-American Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 265</td>
<td>Psychological Effects of Racism</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 341</td>
<td>Black Politics and City Government</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 416</td>
<td>Race and Social Justice in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (with appropriate subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>
Philosophy, BA

The study of Philosophy can be challenging because it asks students to critically examine very fundamental questions about what it means to be human - behavior, values, ethics, logic, aesthetics. Some describe it as “thinking in slow motion” because of the way it explores in depth the human experience.

Students choose philosophy because it instills a lifelong love and quest for knowledge, it imparts a disciplined and systematic way of thinking, and it enhances critical and analytical capacities. Most graduates of philosophy describe the great personal reward that comes from exploring the great thinkers of the past in the context of modern issues. But, they also passionately value the career skills that they developed - how to read and comprehend difficult text; how to understand different interpretations of information and assess opposing viewpoints; how to craft a clear and logical position on an issue in writing and orally; and how to make connections between smaller, seemingly disparate details and the big picture.

By mid-career, philosophy majors out earn business majors on average because their knowledge and skills make them excellent leaders in business, nonprofit, law, government work, education, and more.

The undergraduate program is relatively small, resulting in more one-on-one attention from faculty than might be found at another university.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.
III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.*

1. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

*Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.*

IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following ways:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 9 credits in combination of the two options above</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Social Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation.</td>
<td></td>
</tr>
</tbody>
</table>

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major

The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses
from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 and above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Philosophy Major Requirements
At UWM, incoming freshmen interested in studying philosophy are advised to begin with the general introductory course, PHILOS 101, though there are several courses, especially at the 200 level, that are open to students without a background in philosophy. The 300 level includes courses designed to provide more in-depth treatments of traditional philosophical areas. Courses at the 400 level are devoted to the history of philosophy. Courses at the 500 level deal with specific issues and problems.

The College of Letters & Science requires that students complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. Students also must attain at least a 2.500 GPA on all major credits attempted at UWM. In addition, they must attain a 2.500 GPA on all major credits attempted, including any transfer work.

It is expected that the required courses in the history of philosophy (PHILOS 430 and PHILOS 432) will be taken as soon as the student decides to major in philosophy (normally during the junior year). Students must fulfill the capstone/research requirement in the senior year. It is recommended strongly that students become proficient in at least one related academic discipline. Each major will be asked to submit a paper for inclusion in a portfolio that is kept in the department. Typically, this will be a paper written for PHILOS 685. It should be stressed that this is not an additional requirement for graduation as a major. Rather, it is part of the department's ongoing effort to evaluate and improve our major program.

A minimum of 30 credits in philosophy is required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic (^1)</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 432</td>
<td>Great Thinkers of the Modern Period</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 341</td>
<td>Modern Ethical Theories</td>
<td></td>
</tr>
<tr>
<td>PHILOS 349</td>
<td>Great Moral Philosophers</td>
<td></td>
</tr>
<tr>
<td>PHILOS 355</td>
<td>Political Philosophy</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 303</td>
<td>Mind and Knowledge</td>
<td></td>
</tr>
<tr>
<td>PHILOS 317</td>
<td>Metaphysics</td>
<td></td>
</tr>
<tr>
<td>PHILOS 324</td>
<td>Philosophy of Science</td>
<td></td>
</tr>
<tr>
<td>PHILOS 351</td>
<td>Philosophy of Mind</td>
<td></td>
</tr>
<tr>
<td>Select any philosophy course numbered 500 or above (excluding the course you choose to satisfy the capstone requirement)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 12 credits of philosophy electives \(^2\) 12

Capstone/Research Requirement
Select one of the following: 3

| PHILOS 681 | Seminar in Advanced Topics: (subtitle) |
| PHILOS 685 | Senior Capstone Research Seminar: (subtitle) |

Total Credits 33

1 PHILOS 212, or a more advanced course in logic may be substituted for PHILOS 211 with the permission of the department chair.
2 At least 15 of these 30 credits must be taken at the 300 level or above in residence at UWM.

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major
Prior to the beginning of their senior year, philosophy majors who maintain a 3.000 GPA in all UWM courses attempted, a 3.500 GPA in courses in the major, and a 3.5 GPA in advanced courses in the major may apply to the undergraduate program coordinator for special honors work in philosophy. Upon successful completion of that work, the students are recommended by the department for graduation with honors in philosophy. The special work normally involves participation in PHILOS 681 or PHILOS 685, earning a grade of A- or above.
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact the Department directly, gjaworsk@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/philosophy/undergraduate/

Philosophy, MA
The Department of Philosophy offers a program of graduate study leading to the degree of Master of Arts. The general purpose of this program is to provide students with the background and stimulus for critical and original philosophical thoughts. The program is designed to serve both those students who wish to pursue a Doctor of Philosophy degree in philosophy and those students who wish either to terminate their formal philosophical studies with the Master of Arts degree or to integrate a graduate level of study in philosophy with graduate studies in other academic areas.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

- Undergraduate major in philosophy or other academic background judged suitable by the Department.

- Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).

- Three letters of recommendation concerning academic qualifications.

- A sample of written work is recommended but not required.

- Language and Linguistics Concentration only: LINGUIS 464 or an equivalent.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. At time of admission, the student's program will be supervised by the Graduate Advisor.

A student planning to work beyond the master's program should select, in consultation with the advisor, courses which will develop broad philosophical competence. A student intending to terminate studies with the master's degree may plan a more specialized program.

Advisory Committee
During the first year in attendance, the student chooses an advisor and an advisory committee of three faculty members. The student's advisor serves as chair of this committee. The choice of committee is made in consultation with the student's advisor, and submitted to the Department's Graduate Studies Committee for approval. No later than the second week of the student's second semester in the program, the advisory committee meets with the student to discuss the individual's background in philosophy and goals in this program. By the end of the student's second semester the committee has conferred with the student's instructors and meets with the student to discuss that individual's progress in the program. At that time the student, together with the committee, plans the balance of the student's work in the program and how all requirements can best be met. The committee continues to gather information on the student's class work from the instructors, and at least once each semester meets with the student to discuss the student's continuing progress, future plans in the program and the meeting of departmental requirements. The student may at any time petition the Graduate Studies Committee for a change in the composition of the advisory committee.

Credits and Courses

History Requirement
Students taking Option A or B will be required to demonstrate competence in history of philosophy by passing the following two courses with a grade of B or better.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 432</td>
<td>Great Thinkers of the Modern Period</td>
<td>3</td>
</tr>
</tbody>
</table>

The Graduate Studies Committee may certify competence if the student has as an undergraduate taken PHILOS 430 and PHILOS 432 at UWM within the past five years or has taken their equivalent as determined by the Committee. The determination may include an equivalency exam.

Students selecting the language and linguistics concentration need only meet the requirement for PHILOS 432.
Logic Requirement
The student is required to demonstrate competence in logic by passing with a grade of B or better.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 511</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 712</td>
<td>Fundamentals of Formal Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

The Graduate Committee may certify competence if within the last five years the student has taken PHILOS 511 or PHILOS 712 or has taken an equivalent course as determined by the Committee. The determination may include an equivalency exam.

Degree Alternatives
The Department of Philosophy offers three alternatives by which the Master of Arts degree in philosophy may be obtained: Option A, the non-thesis option; Option B, the thesis option; and a language and linguistics concentration with a thesis. There is no foreign language requirement for the completion of the Master of Arts degree in philosophy, though students are encouraged to develop proficiency in a foreign or classical language.

Option A: Non-Thesis Option (30 Credits Plus Exam)
Minimum degree requirement is 30 credits in coursework, 21 of which must normally be in philosophy, 9 of which may be in related fields. All 30 credits must be earned with grades of B or better; and at least 12 must be in graduate seminars.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses in philosophy</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>At least 12 credits in graduate seminars 1</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Related fields</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 The Philosophy Department Graduate Studies Committee may permit students to count PHILOS 681 or PHILOS 685 toward meeting this requirement, when the content and level of difficulty are equivalent to that of a graduate seminar.

A student proposing a program of study involving more than 9 credits of independent study, or fewer than 21 credits in philosophy courses, must gain specific approval of the student’s advisory committee.

Every student choosing the non-thesis option takes a written exam of no longer than four hours on a philosophical area chosen by the student in consultation with the advisory committee. At least one full semester before the student is to take this exam, a specific list of primary and secondary sources to be covered on the exam is drawn up by the committee together with the student. The committee provides the student with sample questions.

Thesis
Not required.

Time Limit
This program is designed to be completed in two years of full-time attendance. However, all degree requirements must be completed within five years of initial enrollment.

Option B: Thesis Option (30 Credits Plus Defense)
Minimum degree requirement is 30 credits in coursework, 21 of which must normally be in philosophy, 9 of which may be in related fields. All 30 credits must be earned with grades of B or better; and at least 12 must be in graduate seminars.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses in philosophy</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>At least 12 credits in graduate seminars 1</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Related fields</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 The Philosophy Department Graduate Studies Committee may permit students to count PHILOS 681 or PHILOS 685 toward meeting this requirement, when the content and level of difficulty are equivalent to that of a graduate seminar.

The thesis is to be written on a philosophical subject chosen in consultation with the student’s advisory committee. The student and the committee are to meet sufficiently often so that the committee may adequately supervise the writing of the thesis. Upon completion of the thesis the student is required to defend the thesis orally.

Thesis
Required (as above).

Time Limit
This program is designed to be completed in two years of full-time attendance. However, all degree requirements must be completed within five years of initial enrollment.

Language and Linguistics Concentration with Thesis (30 credits Plus Defense)
Credits and Courses
Minimum degree requirement is 30 credits, including the writing of a thesis, plus its defense. All 30 credits must be earned with a grade of B or better. Of the 30 credits at least 18 credits must be in philosophy with the remainder in linguistics.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 516</td>
<td>Language and Meaning 1</td>
<td>3</td>
</tr>
<tr>
<td>Other credits in Philosophy</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>LINGUI 466</td>
<td>Semantics 1</td>
<td>3</td>
</tr>
<tr>
<td>LINGUI 564</td>
<td>Advanced Syntax 1</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Seminars 2</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 May be waived if the student has taken these courses at UWM within the past five years or has taken their equivalent as determined by the Graduate Studies Committee.

2 The Philosophy Department Graduate Studies Committee may permit students to count PHILOS 681 or PHILOS 685 toward meeting this requirement, when the content and level of difficulty are equivalent to that of a graduate seminar.

A student proposing a program of study involving more than 9 credits of independent study must gain specific approval of the student’s advisory committee.
**Thesis**
The thesis is to be written on a language related subject chosen in consultation with the student’s advisory committee. The student and the committee are to meet sufficiently often so that the committee may adequately supervise the writing of the thesis. Upon completion of the thesis, the student is required to defend the thesis orally. PHILOS 990 may be taken only once.

**Time Limit**
This program is designed to be completed in two years of full-time attendance. However, all degree requirements must be completed within five years of initial enrollment.

**Philosophy, Minor**
The study of Philosophy can be challenging because it asks students to critically examine very fundamental questions about what it means to be human – behavior, values, ethics, logic, aesthetics. Some describe it as “thinking in slow motion” because of the way it explores in depth the human experience.

Students choose philosophy because it instills a lifelong love and quest for knowledge, it imparts a disciplined and systematic way of thinking, and it enhances critical and analytical capacities. Most graduates of philosophy describe the great personal reward that comes from exploring the great thinkers of the past in the context of modern issues. But, they also passionately value the career skills that they developed - how to read and comprehend difficult text, how to understand different interpretations of information and assess opposing viewpoints; how to craft a clear and logical position on an issue in writing and orally; and how to make connections between smaller, seemingly disparate details and the big picture.

The undergraduate program is relatively small, resulting in more one-on-one attention from faculty than might be found at another university.

**Requirements**
At UWM, incoming freshmen interested in studying philosophy are advised to begin with the general introductory course, PHILOS 101, though there are several courses, especially at the 200 level, that are open to students without a background in philosophy. The 300 level includes courses designed to provide more in-depth treatments of traditional philosophical areas. Courses at the 400 level are devoted to the history of philosophy. Courses at the 500 level deal with specific issues and problems.

The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. Students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Students wishing to minor in philosophy should consult with the undergraduate program coordinator in order to complete a declaration of minor form and be assigned a departmental advisor.

The minor requires 21 credits in philosophy. Twelve credits are required at the 300 level or above, 9 of which must be taken in residence at UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 430</td>
<td>Great Thinkers of the Ancient Period</td>
<td>3</td>
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<tr>
<td>PHILOS 432</td>
<td>Great Thinkers of the Modern Period</td>
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PHYSICS

The principles of physics provide the underpinnings for many of the scientific and technological advances of the last several decades. Experimental research facilities are available in the areas of condensed matter, surface science, biophysics, and optics. Theoretical studies are conducted in relativity and cosmology, high energy physics, biophysics, medical imaging, and condensed matter physics. Observational studies focus on relativistic astrophysics, multi-messenger astronomy, and galaxy evolution. Joint study with other departments can also be arranged.

Programs

- Physics, BS (p. 1666)
- Physics, Minor (p. 1670)
- Physics, MS (p. 1671)
- Physics, PhD (p. 1672)

Astronomy Courses

ASTRON 103 Survey of Astronomy
3 cr. Undergraduate.
History of astronomy; planets; stellar evolution, nucleosynthesis; death of stars: white dwarfs, neutron stars, black holes; galaxies and quasars; expansion of the universe, dark matter; the big bang.
Prerequisites: math placement level 10.
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ASTRON 104 Astronomy Laboratory
1 cr. Undergraduate.
Observations of planets, stars, stellar clusters, and galaxies; related experiments. Correlated with Astron 103.
Prerequisites: Astron 103(C) or Astron 211(C).
General Education Requirements: NS+
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ASTRON 185 Astronomy for Pre-Education Majors
3 cr. Undergraduate.
Space: how we know and what we know; the solar system, stars, galaxies, and the universe. 2 hrs lec, lab.
Prerequisites: none.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

ASTRON 194 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

ASTRON 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ASTRON 211 Principles of Astronomy
3 cr. Undergraduate.
Light and matter; planets; stellar evolution, nucleosynthesis; death of stars: white dwarfs, neutron stars, black holes; galaxies, quasars; expansion of universe, dark matter; big bang.
Prerequisites: Physics 120(P) or 209(P) or cons instr.
General Education Requirements: NS
Last Taught: Fall 2017, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ASTRON 289 Internship in Astronomy, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in astron; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ASTRON 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem. May be retaken w/chg in topic.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Last Taught: Fall 2007.
Current Offerings: http://uwm.edu/schedule

ASTRON 400 Astrophysics I
3 cr. Undergraduate.
Introductory astrophysics for students with junior-/senior-level background in mathematics and physics. Light and matter; stars and the sun; extrasolar planets; compact objects.
Prerequisites: Astron 103(P) or 211(P) or cons instr; Physics 309(P); Physics 317(R) recom.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

ASTRON 401 Astrophysics II
3 cr. Undergraduate.
Continuation of Astron 400; for students with junior-/senior-level background in mathematics and physics. The Milky Way Galaxy; galactic evolution; structure of the Universe; cosmology.
Prerequisites: Astron 400(300)(P).
Current Offerings: http://uwm.edu/schedule
ASTRON 489 Internship in Astronomy, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in astron; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

ASTRON 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2006.
Current Offerings: http://uwm.edu/schedule

Physics Courses

PHYSICS 100 Quantitative Preparation for Physics
2 cr. Undergraduate.
Introductory course in general physics designed for the student with little or no previous science training.
Prerequisites: Math Placement Level 10.
Course Rules: Fee for 3 cr assessed. Not open to students w/cr in Physics 110(ER), 120(ER), or 209(ER).
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

PHYSICS 107 Physics in Everyday Life
3 cr. Undergraduate.
Selected topics for citizens in a technological world. Emphasis on those aspects of science important to an understanding of our surroundings. For non-science majors.
Prerequisites: none.
Course Rules: May not be taken conc with or after having taken Physics 120(ER) or 209(ER).
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

PHYSICS 108 Laboratory for Physics in Everyday Life
1 cr. Undergraduate.
Experiments correlated with Physics 107.
Prerequisites: Physics 107(C).
General Education Requirements: NS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PHYSICS 110 Physics for the Health Professions
4 cr. Undergraduate.
An introductory course without laboratory for students in health-related pre-professional programs. Topics include mechanics, fluids, heat, sound, electricity, magnetism, electrical devices, optics, and radioactivity. 3 hrs lec, 1 hr dis.
Prerequisites: H.S. general science; Math Placement Level 20.
Course Rules: May not be taken conc with or after having taken Physics 120(ER) or 209(ER).
General Education Requirements: NS
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PHYSICS 120 General Physics I (Non-Calculus Treatment)
4 cr. Undergraduate.
Mechanics, wave motion, heat, and sound. 3 hrs lec, 2 hrs dis.
Prerequisites: Math Placement Level 30 or grade of C or better in Physics 100(P); HS trig or Physics 100 strongly recom.
Course Rules: Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

PHYSICS 121 General Physics Laboratory I (Non-Calculus Treatment)
1 cr. Undergraduate.
Experiments correlated with lecture material of Physics 120.
Prerequisites: Physics 120(C).
Course Rules: Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule

PHYSICS 122 General Physics II (Non-Calculus Treatment)
4 cr. Undergraduate.
Electricity, optics, modern physics. 3 hrs lec, 2 hrs dis.
Prerequisites: Physics 120(NP).
Course Rules: Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation.
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

PHYSICS 123 General Physics Laboratory II (Non-Calculus Treatment)
1 cr. Undergraduate.
Experiments on topics related to the lecture material of Physics 122.
Prerequisites: Physics 122(C).
Course Rules: Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation.
General Education Requirements: NS+
Current Offerings: http://uwm.edu/schedule
PHYSICS 185 Basic Physics for Teachers  
3 cr. Undergraduate.  
Simple machines; work, energy and power; heating and cooling; static electricity and elementary electrical circuits; waves. 2 hrs lec; 2 hrs lab/ dis.  
Prerequisites: Math 175(P) & cons instr.  
Course Rules: Not open for cr to students with cr in Physics courses numbered 110 or above.  
General Education Requirements: NS+  
Current Offerings: http://uwm.edu/schedule

PHYSICS 194 First-Year Seminar:  
3 cr. Undergraduate.  
The specific topics are announced in the Schedule of Classes each time the class is offered.  
Prerequisites: none.  
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).  
General Education Requirements: NS  
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

PHYSICS 199 Independent Study  
1-3 cr. Undergraduate.  
For further information, consult dept chair.  
Prerequisites: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.  
Course Rules: May be retaken to 6 cr max.  
Current Offerings: http://uwm.edu/schedule

PHYSICS 209 Physics I (Calculus Treatment)  
4 cr. Undergraduate.  
Selected topics in mechanics, wave motion, sound, and heat. 3 hrs lec, 2 hrs dis.  
Prerequisites: Math 227(C), 228(C), or 232(C).  
Course Rules: Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.  
General Education Requirements: NS  
Current Offerings: http://uwm.edu/schedule

PHYSICS 210 Physics II (Calculus Treatment)  
4 cr. Undergraduate.  
Continuation of Physics 209. Electromagnetic field theory and optics. 3 hrs lec, 2 hrs dis.  
Prerequisites: grade of C or better in Physics 209(NP); Math 229(C) or 233(C).  
Course Rules: Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation.  
General Education Requirements: NS  
Current Offerings: http://uwm.edu/schedule

PHYSICS 214 Lab Physics I (Calculus Treatment)  
1 cr. Undergraduate.  
Experiments in mechanics, wave motion, heat, and thermodynamics. 3 hrs lab.  
Prerequisites: Physics 209(C).  
Course Rules: Any combination of Physics 120, 121, 209, 214, 219 carries 5 cr max toward graduation.  
General Education Requirements: NS+  
Current Offerings: http://uwm.edu/schedule

PHYSICS 215 Lab Physics II (Calculus Treatment)  
1 cr. Undergraduate.  
Experiments in electricity, magnetism, and optics. 3 hrs lec.  
Prerequisites: Physics 210(C).  
Course Rules: Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation.  
General Education Requirements: NS+  
Current Offerings: http://uwm.edu/schedule

PHYSICS 219 Physics I: Calculus-Based, Studio Format  
5 cr. Undergraduate.  
Basic kinematics; Newton. Selected topics in mechanics, wave motion, sound, and heat. 8 hrs lec/lab.  
Prerequisites: Math 227(C), 228(C), or 232(C).  
Course Rules: Not open to students w/cr in Physics 209. Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.  
General Education Requirements: NS+  
Last Taught: Fall 2017, Fall 2016, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

PHYSICS 220 Physics II: Calculus-Based, Studio Format  
5 cr. Undergraduate.  
Electromagnetic field theory and optics.  
Prerequisites: grade of C or better in Physics 219(NP); Math 229(C) or 233(C).  
Course Rules: Not open to students w/cr in Physics 210. Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation.  
General Education Requirements: NS+  
Current Offerings: http://uwm.edu/schedule

PHYSICS 265 Physics and the Energy Problem  
3 cr. Undergraduate.  
Study of how the laws of physics (particularly 1st and 2nd Laws of Thermodynamics) limit society's options in dealing with scarcity of utilizable energy.  
Prerequisites: H.S. algebra; Physics 107(P), 110(P), 120(P), or 209(P).  
Current Offerings: http://uwm.edu/schedule

PHYSICS 270 Introduction to Computational Physics  
3 cr. Undergraduate.  
Use of computers to solve physics problems, including particle collisions, chaotic systems, planetary motion, and other topics related to relativity and quantum mechanics.  
Prerequisites: Physics 209(P); Math 233(C).  
Current Offerings: http://uwm.edu/schedule
PHYSICS 289 Internship in Physics, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of physics in a research, business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in physics; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PHYSICS 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance into UROP; prior or conc reg in UROP seminar.
Course Rules: One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Spring 2018, Spring 2017, Fall 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2015, Summer 2011, Spring 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

PHYSICS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PHYSICS 305 Medical Physics
3 cr. Undergraduate.
Applications of physics to living systems & medical diagnostics. 3 hrs lec.
Prerequisites: grade of B+ or better in Physics 209(P). (Conc reg in Physics 210 strongly recom).
Course Rules: Primarily for premed students and others in the medical & biological sciences. Approved for Premed Stds Cert Prog.
Current Offerings: http://uwm.edu/schedule

PHYSICS 306 Introduction to Biophysics
3 cr. Undergraduate.
Physical foundations of cellular phenomena; physical laws of complex biological systems; imaging and instrumentation for biophysics. 3 hrs lec.
Prerequisites: Physics 122(P) or 210(P); Chemistry 104(P) or 105(P).
Course Rules: Approved for Premed Stds Cert Prog.
Last Taught: Fall 2017, Fall 2015, Fall 2010, Spring 2009.
Current Offerings: http://uwm.edu/schedule

PHYSICS 309 Physics III: Modern Physics
3 cr. Undergraduate.
Elementary quantum physics, atomic and molecular physics, solid state and nuclear physics.
Prerequisites: Physics 210(NP); Math 234(C).
Course Rules: Not open for cr to students who have had Physics 341.
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PHYSICS 317 Thermodynamics
3 cr. Undergraduate.
Classical thermodynamics, including entropy, the use of thermodynamic potentials, and applications to pressure-volume and other systems. Some basic statistical physics may be included.
Prerequisites: Physics 210(NP).
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

PHYSICS 325 Optics
4 cr. Undergraduate.
Geometric and physical optics, image formation, interference, diffraction, polarization, optical instruments, resolving power, coherence, lasers, holography. Selected experiments in optics. Studio-format course.
Prerequisites: Math 234(P) & Physics 309(C) or cons instr.
Course Rules: Counts as repeat of Physics 325 & 2 cr of Physics 410.
Current Offerings: http://uwm.edu/schedule

PHYSICS 351 Basics of Condensed Matter Physics
3 cr. Undergraduate.
Basic principles of condensed-matter physics. Crystals and amorphous materials; bonding; magnetic, thermal, and transport properties; band theory.
Prerequisites: Physics 309(P) or Chem 311(P).
Course Rules: Counts as repeat of Physics 499 w/same topic.
Current Offerings: http://uwm.edu/schedule

PHYSICS 370 Analytical and Numerical Methods in Physics
3 cr. Undergraduate.
Solutions to various physics problems. Applications (both analytical and numerical) from mechanics, electrodynamics, quantum mechanics, astrophysics, condensed matter physics.
Prerequisites: Physics 210(NP); Math 234(C) or ElecEng 234(C); or cons instr.
Last Taught: Spring 2018, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 381 Honors Seminar:
3 cr. Undergraduate.
Selected topics concerning history and the nature of physics as an intellectual discipline.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max. No cr toward major.
General Education Requirements: NS
Last Taught: Fall 2017, Fall 2016, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule
PHYSICS 391 Undergraduate Research Participation
1-6 cr. Undergraduate.
Independent research for undergraduates on faculty-supervised research projects.
Prerequisites: Physics 309(P); 3.25 GPA in physics courses; cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max; non-repeatable for change of grade.
Current Offerings: http://uwm.edu/schedule

PHYSICS 406 Introduction to Infrared Microspectroscopy
3 cr. Undergraduate.
Microscopy and spectroscopy methods for identification of chemical composition introducing interdisciplinary opportunities in fundamental and industrial applications.
Prerequisites: Bio Sci 150(P) & 152(P); or Physics 209(P) & 210(P); or Chem 102(P) & 104(P); or Chem 105(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 408 Experiments in Linear Electronics
3 cr. Undergraduate/Graduate.
Transistor and integrated circuit characteristics; electronic measurement and control.
Prerequisites: jr st, Physics 210(P).
Course Rules: No cr for students w/cr in ElecEng 330(R).
Current Offerings: http://uwm.edu/schedule

PHYSICS 409 Modern Physics Laboratory
3 cr. Undergraduate.
Selected experiments in modern physics using advanced lab instrumentation.
Prerequisites: jr st; Physics 210(P) or cons instr.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 411 Mechanics
4 cr. Undergraduate/Graduate.
Kinematics, vector analysis, conservation laws, oscillations, variational methods, chaos, Lagrangian and Hamiltonian mechanics.
Prerequisites: jr st; Physics 210(NP).
Current Offerings: http://uwm.edu/schedule

PHYSICS 420 Electricity and Magnetism I
3 cr. Undergraduate/Graduate.
Conservation laws in electrodynamics, Maxwell's stress tensor, electromagnetic waves, absorption, dispersion, reflection and transmission of plane electromagnetic waves, wave guides, retarded potentials, radiation, electrodynamics and relativity.
Prerequisites: jr st, Physics 420(P); or grad st.
Course Rules: Counts as repeat of 2 cr of Physics 421.
Current Offerings: http://uwm.edu/schedule

PHYSICS 422 Electricity and Magnetism II
3 cr. Undergraduate/Graduate.
Continuation of Physics 421, emphasizing perturbation theory and applications to multi-electron systems, including atoms, molecules, and solids.
Prerequisites: jr st; Physics 309(NP); Math 321(C).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 441 Introduction to Quantum Mechanics I
4 cr. Undergraduate/Graduate.
Historical background and experimental basis, De Broglie waves, correspondence principle, uncertainty principle, Schroedinger equation; hydrogen atom, electron spin, Pauli Principle, applications of wave mechanics.
Prerequisites: jr st; Physics 309(NP); Math 321(C).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 442 Introduction to Quantum Mechanics II
3 cr. Undergraduate/Graduate.
Continuation of Physics 441, emphasizing perturbation theory and applications to multi-electron systems, including atoms, molecules, and solids.
Prerequisites: jr st; Physics 441(NP).
Current Offerings: http://uwm.edu/schedule

PHYSICS 489 Internship in Physics, Upper Division
1-6 cr. Undergraduate.
Application of advanced principles of physics in a research, business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Physics; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PHYSICS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PHYSICS 498 Undergraduate Physics Seminar
1 cr. Undergraduate.
Talks by faculty, visitors, and students on topics of current interest in physics, astronomy, and other science and engineering fields.
Prerequisites: sr st; Physics 411(C), 421(C), or 441(C).
Course Rules: Cr/no cr only.
Current Offerings: http://uwm.edu/schedule
PHYSICS 499 Ad Hoc:  1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, the course may be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PHYSICS 501 Special Topics: Mathematical Models of Physical Problems I
3 cr. Undergraduate/Graduate.
Selected topics in mathematics for study of the techniques and procedures for stating physical problems in mathematical terms and the physical interpretation of mathematical solutions.
Prerequisites: jr st; Physics 210(P); Math 234(P).
Last Taught:  Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 502 Special Topics: Mathematical Models of Physical Problems II
3 cr. Undergraduate/Graduate.
More selected topics in mathematical models.
Prerequisites: jr st, Physics 210(P); Math 234(P). Physics 501(R).
Current Offerings: http://uwm.edu/schedule

PHYSICS 515 Statistical Mechanics
3 cr. Undergraduate/Graduate.
Brief survey of thermodynamics; statistical mechanics; classical and quantum gases.
Prerequisites: jr st; Physics 317(P) & 441(P).
Last Taught:  Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 517 Special Relativity
3 cr. Undergraduate/Graduate.
Relativistic kinematics, the Lorentz transformation, tensor calculus, applications to motion of particles, electromagnetism.
Prerequisites: jr st; Physics 441(R) & 421(R).
Last Taught:  Fall 2017, Fall 2014, Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

PHYSICS 531 Principles of Quantum Mechanics I
3 cr. Undergraduate/Graduate.
Vector and Hilbert spaces; Schroedinger equation in 1, 2, and 3 dimensions; systems of many particles; symmetries; angular momentum.
Prerequisites: jr st, Physics 441(P).
Last Taught:  Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 532 Principles of Quantum Mechanics II
3 cr. Undergraduate/Graduate.
Continuation of 531. Spin; hydrogen atom; variational methods; WKB approximation; perturbation theory; scattering theory; Dirac equation.
Prerequisites: jr st, Physics 531(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 541 Elementary Particles
3 cr. Undergraduate/Graduate.
Accelerators and detectors; special unitary groups; quark model of hadrons; Feynman diagrams; electromagnetic, weak and strong interactions of quarks and leptons; Higgs boson.
Prerequisites: jr st; Physics 441(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 551 Introduction to Solid State Physics I
3 cr. Undergraduate/Graduate.
Crystal structure, reciprocal lattice; crystal binding; elastic waves; phonons, lattice vibrations; thermal properties of insulators; free electron Fermi gas. Band structure; semiconductor crystals; Fermi surface.
Prerequisites: jr st; Physics 441(P) or cons instr.
Last Taught:  Fall 2016, Fall 2014, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

PHYSICS 575 Vacuum Science and Technology
3 cr. Undergraduate/Graduate.
Viscous and molecular flow, vacuum materials and seals, metal-to-ceramic seals, evaporation and vapor pressures, vacuum pumps, vacuum gauges, mass spectrographs, chemical reactions at surfaces, outgassing.
Prerequisites: jr st, Physics 441(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 606 Molecular, Cellular, and System Biophysics
3 cr. Undergraduate.
Prerequisites: jr st, Physics 210(P), & writ cons instr; or grad st.
Current Offerings: http://uwm.edu/schedule

PHYSICS 610 The Art and Science of Teaching Physics
1 cr. Undergraduate/Graduate.
Participants critique lectures, videotapes of experienced teachers, each other; address conceptual problems facing beginning students; gain familiarity with demonstrations, classroom technology; discuss their own classes.
Prerequisites: appt as undergrad TA or grad st.
Last Taught:  Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 651 Introduction to Solid State Physics II
3 cr. Undergraduate/Graduate.
Transport, superconductivity, dielectric properties, ferroelectric crystals, magnetism, magnetic resonance, optical phenomena in insulators, nanostructures, non-crystalline solids, point defects, alloys, dislocations.
Prerequisites: jr st; Physics 551(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 670 Electron Microscopy Laboratory
3 cr. Undergraduate/Graduate.
Diffraction, imaging, and spectroscopy methods for study of morphology, crystallinity, and composition of solids in a transmission electron microscope.
Prerequisites: sr st; Physics 551(P) or cons instr.
Current Offerings: http://uwm.edu/schedule
PHYSICS 698 Research Experience for Teachers
1-6 cr. Undergraduate/Graduate.
Enrichment of students' physics background. Work with faculty mentor to develop an innovative teaching program for use in students' own classroom.
Prerequisites: sr st; current teaching contract.
Course Rules: Open only to practicing science teachers with demonstrable expertise in physics. May be retaken to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHYSICS 699 Advanced Independent Reading
1-3 cr. Undergraduate.
Independent reading or research under supervision of faculty member. Study proposal required. For further information, consult dept chair or undergrad advising coord.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PHYSICS 705 Molecular, Cellular, and System Biophysics
3 cr. Graduate.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2015, Fall 2012, Spring 2010.
Current Offerings: http://uwm.edu/schedule

PHYSICS 706 Biophotonics
3 cr. Graduate.
Biophotonics and bioimaging; overview of application of optics in biology and medicine based on the understanding of basic optics, spectroscopy, and imaging theory.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

PHYSICS 707 Structural Molecular Biophysics
3 cr. Graduate.
Methods in molecular biophysics.
Prerequisites: grad st; major in science-based discipline & Physics 210(P), or writ cons instr.
Current Offerings: http://uwm.edu/schedule

PHYSICS 711 Theoretical Physics-Dynamics
3 cr. Graduate.
Lagrange equations, canonical formulation, principle of least action, normal coordinates, rigid bodies, special relativity, mathematical methods.
Prerequisites: grad st; Math 321(C) or 322(C); or 701(C) or 702(C).
Current Offerings: http://uwm.edu/schedule

PHYSICS 716 Advanced Topics in Statistical Physics
3 cr. Graduate.
Systems of interacting particles; critical phenomena; transport theory; irreversible processes and fluctuations; model calculations for interacting systems of particles.
Prerequisites: grad st; Physics 515(P), 532(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 717 Gravitation
3 cr. Graduate.
Prerequisites: grad st; Physics 517(P).
Last Taught: Spring 2018, Fall 2015, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

PHYSICS 718 White Dwarfs, Neutron Stars, and Black Holes
3 cr. Graduate.
Physics of compact objects; Newtonian and relativistic stellar structure and stability; pulsars, x-ray sources; accretion disks; gravitational collapse; stellar-size and supermassive black holes; quasars.
Prerequisites: grad st; Physics 717(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

PHYSICS 720 Electrodynamics I
3 cr. Graduate.
Maxwell's equations; Helmholtz theorem; scalar and vector potentials; boundary value problems; plane wave solutions.
Prerequisites: grad st; Physics 711(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 721 Electrodynamics II
3 cr. Graduate.
Wave guides, radiation by charges; radiation reaction; radiation scattering, damping and dispersion; covariant formulation of electrodynamics.
Prerequisites: grad st; Physics 720(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 731 Quantum Mechanics
3 cr. Graduate.
Mathematical formalism of quantum mechanics. Observables and transformation theory, scattering perturbation, other approximation methods.
Prerequisites: grad st; Physics 532(P) & 711(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 735 High Energy Physics
3 cr. Graduate.
Special relativity applied to high energy collisions, experimental techniques, ionization and radiation at high energy, weak interactions theory, H-meson and strange particle interactions, ultra-high energy phenomena.
Prerequisites: grad st & Physics 732(P).
Last Taught: Fall 2011.
Current Offerings: http://uwm.edu/schedule
PHYSICS 751 Solid State Theory I
3 cr. Graduate.
Phonons, plasmons, magnons, fermion fields and the hartree-fock approximation, and electron many-body techniques and the electron gas.
Prerequisites: grad st; Physics 531(P) & Physics 651(P).
Last Taught: Spring 2018, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

PHYSICS 752 Solid State Theory II
3 cr. Graduate.
Dynamics of electrons in a magnetic field: energy bands, cyclotron resonance, impurity states, optical absorption and excitons in semiconductor crystals; electrodynamics of metals; green's functions.
Prerequisites: grad st & Physics 532(P) & 751(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 770 Electron Microscopy
3 cr. Graduate.
Prerequisites: grad st; Physics 551(P) or cons instr.
Last Taught: Fall 2011, Spring 2002.
Current Offerings: http://uwm.edu/schedule

PHYSICS 775 Surface Physics I
3 cr. Graduate.
Survey of experimental techniques in surface physics research.
Prerequisites: grad st; Physics 515(P) & 575(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 781 Medical Radiation Physics
3 cr. Graduate.
Physical principles of the generation, interaction, detection, and measurement of radiation in medical applications; basics of radiation protection.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

PHYSICS 782 Physics of Medical Imaging
3 cr. Graduate.
Basic theoretical knowledge of the physics of diagnostic radiology using x-rays, magnetic resonance, nuclear medicine, and ultrasounds.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

PHYSICS 784 Radiotherapy Physics
3 cr. Graduate.
Radiation physics for work as a hospital physicist, including accelerators for radiation therapy, quality characteristics of treatment beams, treatment planning, treatment techniques, quality assurance, oncology.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

PHYSICS 786 Medical Physics Practicum
3 cr. Graduate.
Training with clinical medical imaging and therapy equipment, and dosimetry instrumentation.
Prerequisites: grad st; Physics 781(P)
Current Offerings: http://uwm.edu/schedule

PHYSICS 787 Physics of Medical Imaging
3 cr. Graduate.
Basic theoretical knowledge of the physics of diagnostic radiology using x-rays, magnetic resonance, nuclear medicine, and ultrasounds.
Prerequisites: grad st; Physics 551(P) or cons instr.
Last Taught: Fall 2011, Spring 2002.
Current Offerings: http://uwm.edu/schedule

PHYSICS 7891 Special Topics in Theoretical Physics
2-3 cr. Graduate.
Discussion of recent research or advanced special topics.
Prerequisites: grad st & cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHYSICS 807 Group Theory and Its Applications to Physics
3 cr. Graduate.
Representations of discrete and continuous groups, including rotation groups, unitary groups and crystal point and space groups. Symmetries of elementary particles. Molecular obitals, energy bands.
Prerequisites: grad st; Physics 532(P).
Course Rules: Counts as repeat of Math 807.
Current Offerings: http://uwm.edu/schedule

PHYSICS 811 Nonlinear Dynamics and Chaos
3 cr. Graduate.
Iteration of maps, numerical integration, strange attractors in dissipative systems, fractal dimensions, multifractals, entropy. Chaos in hamiltonian systems, perturbation theory, kam theorem. Quantum chaos.
Prerequisites: grad st; Physics 711(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 817 Gravitation and Cosmology II
3 cr. Graduate.
Experimental tests in gravitation. Gravitational waves: generation, detection. Spinning black holes. Cosmology: idealised cosmologies; present state of the universe; nucleosynthesis; inflation; recent developments.
Prerequisites: grad st; Physics 717(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

PHYSICS 818 Advanced Topics in Gravitational Physics
3 cr. Graduate.
Prerequisites: grad st; Physics 717(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 831 Quantum Field Theory I
3 cr. Graduate.
Group theory, canonical and path integral quantization, feynman rules, quantum electrodynamics, renormalization, quantum chromodynamics, electroweak theory, spontaneous symmetry breaking.
Prerequisites: grad st; Physics 732(P).
Last Taught: Fall 2017, Fall 2013, Spring 2000, Fall 1994.
Current Offerings: http://uwm.edu/schedule

PHYSICS 852 Superconductivity
3 cr. Graduate.
Properties of type I and type II superconductors, bcs and ginzburg-landau theory, vortices, and flux dynamics.
Prerequisites: grad st; Physics 532(P) & 651(P).
Last Taught: Spring 2007.
Current Offerings: http://uwm.edu/schedule
PHYSICS 853 Superfluidity
3 cr. Graduate.
Prerequisites: grad st, Physics 551(P) & 651(P) or physics 515(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 854 Electron Phonon Interaction
3 cr. Graduate.
Wave propagation in metals. Interaction of electrons with the lattice in normal metals, superconductors, and magnetic materials.
Prerequisites: grad st, Physics 532(P) & 651(P).
Current Offerings: http://uwm.edu/schedule

PHYSICS 900 Colloquium
1 cr. Graduate.
Lectures by staff and visitors on research in various areas of physics.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2014, Spring 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

PHYSICS 903 Seminar in Theoretical Physics:
1-3 cr. Graduate.
Discussion of special topics of interest to research students in theoretical physics. Retakable w/chg in topic to 9 cr max. Prereq: grad st & cons instr.
Prerequisites: 
Last Taught: Spring 2017, Fall 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PHYSICS 904 Seminar in Surface Studies: 
1-3 cr. Graduate.
Special topics in the chemistry and physics of surface studies. Specific topics and any additional prerequisites announced in Timetable each time course is offered.
Prerequisites: grad st; cons instr.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PHYSICS 906 Seminar in Biophysics:
1-3 cr. Graduate.
Special topics in experimental biophysics. Retakable with change in topic to 9 cr max.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

PHYSICS 990 Research 
1-9 cr. Graduate.
Prerequisites: grad st & cons instr.
Current Offerings: http://uwm.edu/schedule

PHYSICS 999 Independent Reading 
1-3 cr. Graduate.
For the benefit of graduate students unable to secure needed content in regular courses.
Prerequisites: grad st, cons instr.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel Agterberg</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Toronto</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Donald E. Beck</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Alberta</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Patrick Brady</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-Santa Barbara</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Philip Chang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Waterloo-Ontario</td>
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</tr>
<tr>
<td>Yutze Chow</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>California Institute of Technology</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Jolien Creighton</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-Santa Barbara</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Richard H. Dittman</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>California Institute of Technology</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Dawn Erb</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>California Institute of Technology</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>John L. Friedman</td>
<td>Distinguished Professor Emeritus</td>
<td>PhD</td>
<td>Arizona State University</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Marija Gajardziska-Josifovska</td>
<td>Professor</td>
<td>PhD</td>
<td>Arizona State University</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Robert G. Greenler</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Bombay, India</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Prasenjit Guptasarma</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Yale University</td>
<td>✔</td>
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</tr>
<tr>
<td>Carol Hirschmugl</td>
<td>Professor</td>
<td>PhD</td>
<td>California Institute of Technology</td>
<td>✔</td>
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<tr>
<td>David Kaplan</td>
<td>Associate Professor</td>
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<tr>
<td>Moises Levy</td>
<td>Professor Emerita</td>
<td>PhD</td>
<td>University of Pennsylvania</td>
<td>✔</td>
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</tr>
<tr>
<td>Paul Lyman</td>
<td>Professor</td>
<td>PhD</td>
<td>Wolfson College, Oxford</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Abbas Ourmazd</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
<td>✔</td>
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</table>

University of Wisconsin-Milwaukee
Physics is the study of matter and energy and their interactions in nature and under man-made conditions. Everything is comprised of matter and energy so the principles of physics touch everything in the world around us and beyond the bounds of Earth into the Universe.

UWM students can shape their Physics major in one of two directions. The standard major provides a broad overview of all aspects of physics: mechanics, optics and lasers, thermodynamics, quantum physics, magnetism, electricity, and the math principles that underlie everything in physics. In the astronomy focused version of the major, students still master these basics plus they add in additional coursework in astrophysics and gravitation.

UWM’s program provides excellent preparation for graduate programs in physics, engineering, and math or can serve as a springboard to careers in areas of electronics and computers; space travel and space exploration; satellite technology; medical imaging and treatment; telecommunications; nuclear power; semi- and super-conductors; environmental consulting; climatology; green energy; and more.

The opportunity to participate in research as an undergraduate is a distinct advantage to being a Physics student at UWM. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Requirements

Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>Oral and Written Communication</td>
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<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
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<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td>3</td>
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<tr>
<td>Humanities</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>UWM Foreign Language Requirement</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
Complete Foreign Language Requirement through:
- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements
I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
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<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
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<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 110</td>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td></td>
</tr>
<tr>
<td>HUM 110</td>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
</tr>
<tr>
<td>HUM 111</td>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
</tr>
</tbody>
</table>

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS</td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td>HUMS</td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *</td>
<td>12</td>
</tr>
<tr>
<td>SOSC</td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td>NATS</td>
<td>Complete 12 credits of L&amp;S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas.</td>
<td>12</td>
</tr>
<tr>
<td>CD/CD</td>
<td>Complete 3 credits in a course with Cultural Diversity (CD) designation. **</td>
<td>3</td>
</tr>
</tbody>
</table>
* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement.
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Physics Major Requirements
Freshmen who enter with scores of 4 or 5 on the Physics Advanced Placement exam given by CEEB are given partial credit for the introductory courses.

Students who have a combined GPA of 2.500 or above in all mathematics and physics courses taken in the first two years will be approved for a major in physics. This requirement will be waived in those cases where students are able to show evidence of unusual circumstances.

The department offers two study options. The standard physics major is for students who seek a general physics degree. The physics major with astronomy emphasis is for students who wish to pursue their interest in astronomy. While the standard physics major generally is followed by students who plan to go on to graduate school, the major with astronomy emphasis also enables students to pursue graduate work in physics.

Both options require that students take at least 15 credits in advanced-level (numbered 300 and above) courses in residence at UWM. The College of Letters & Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. All students in the College are required to complete a research experience in their majors. Physics majors meet this requirement by successfully completing an upper-level, 3-credit laboratory courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Physics II: Calculus-Based, Studio Format</td>
<td>3</td>
</tr>
</tbody>
</table>

Option 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 309</td>
<td>Physics III: Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 270</td>
<td>Introduction to Computational Physics</td>
<td>3</td>
</tr>
<tr>
<td>or PHYSICS 370</td>
<td>Analytical and Numerical Methods in Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 325</td>
<td>Optics</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following: 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 406</td>
<td>Introduction to Infrared Microspectroscopy</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 408</td>
<td>Experiments in Linear Electronics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 409</td>
<td>Modern Physics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 411</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 420</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 422</td>
<td>Electricity and Magnetism II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 441</td>
<td>Introduction to Quantum Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 442</td>
<td>Introduction to Quantum Mechanics II</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Selecting electives are encouraged (see below)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 670</td>
<td>Electron Microscopy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation 3</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 43

1 The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee; it must demonstrate clear pedagogical value. Unfocused laboratory internships are not acceptable.

1 PHYSICS 219 and PHYSICS 220 are strongly recommended; however, PHYSICS 209/PHYSICS 214 and PHYSICS 210/PHYSICS 215 courses may be taken with the consent of the undergraduate advisor.

2 These courses are not offered every semester; check with the undergraduate advisor to plan for completing this requirement.

Study Options
Select one of the following: 3-5

Standard Physics Major

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Physics II: Calculus-Based, Studio Format</td>
<td>3</td>
</tr>
</tbody>
</table>

Physics Major with Astronomy Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYSICS 214</td>
<td>and Lab Physics I (Calculus Treatment)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
<td>3</td>
</tr>
<tr>
<td>&amp; PHYSICS 215</td>
<td>and Lab Physics II (Calculus Treatment)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 309</td>
<td>Physics III: Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 270</td>
<td>Introduction to Computational Physics</td>
<td>3</td>
</tr>
<tr>
<td>or PHYSICS 370</td>
<td>Analytical and Numerical Methods in Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 317</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 325</td>
<td>Optics</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following: 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 406</td>
<td>Introduction to Infrared Microspectroscopy</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 408</td>
<td>Experiments in Linear Electronics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 409</td>
<td>Modern Physics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 670</td>
<td>Electron Microscopy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation 3</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 43-55

1 PHYSICS 219 and PHYSICS 220 are strongly recommended; however, PHYSICS 209/PHYSICS 214 and PHYSICS 210/PHYSICS 215 courses may be taken with the consent of the undergraduate advisor.

2 These courses are not offered every semester; check with the undergraduate advisor to plan for completing this requirement.
The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.

Students who major in both physics and engineering are not required to take PHYSICS 442; however, it is recommended strongly that they do so.

Electives

No elective courses are required, but students are encouraged to select electives from Physics or Astronomy courses 300 level or above from the following list. Only the courses identified in the list below with the phrase "if not selected above" will be counted in the student's major GPA.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRON 400</td>
<td>Astrophysics I</td>
<td>3</td>
</tr>
<tr>
<td>ASTRON 401</td>
<td>Astrophysics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 305</td>
<td>Medical Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 306</td>
<td>Introduction to Biophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 351</td>
<td>Basics of Condensed Matter Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 370</td>
<td>Analytical and Numerical Methods in Physics (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation (if not selected above)</td>
<td>1-6</td>
</tr>
<tr>
<td>PHYSICS 406</td>
<td>Introduction to Infrared Microspectroscopy (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 408</td>
<td>Experiments in Linear Electronics (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 409</td>
<td>Modern Physics Laboratory (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 515</td>
<td>Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 517</td>
<td>Special Relativity</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 531</td>
<td>Principles of Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 532</td>
<td>Principles of Quantum Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 541</td>
<td>Elementary Particles</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 551</td>
<td>Introduction to Solid State Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 651</td>
<td>Introduction to Solid State Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 670</td>
<td>Electron Microscopy Laboratory (if not selected above)</td>
<td>3</td>
</tr>
</tbody>
</table>

Physics Major with Astronomy Emphasis

A minimum of 55 credits in physics and astronomy courses, including:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 309</td>
<td>Physics III: Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 270</td>
<td>Introduction to Computational Physics</td>
<td>3</td>
</tr>
<tr>
<td>or PHYSICS 370</td>
<td>Analytical and Numerical Methods in Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 325</td>
<td>Optics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 317</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 411</td>
<td>Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 420</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 422</td>
<td>Electricity and Magnetism II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 441</td>
<td>Introduction to Quantum Mechanics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 442</td>
<td>Introduction to Quantum Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>ASTRON 400</td>
<td>Astrophysics I</td>
<td>3</td>
</tr>
<tr>
<td>ASTRON 401</td>
<td>Astrophysics II</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRON 103</td>
<td>Survey of Astronomy</td>
<td></td>
</tr>
<tr>
<td>or ASTRON 211</td>
<td>Principles of Astronomy</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 110</td>
<td>The Origin, Composition, and Structure of the Planetary Atmospheres</td>
<td></td>
</tr>
<tr>
<td>GEO SCI 120</td>
<td>Geology of the Planets</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 517</td>
<td>Special Relativity</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 541</td>
<td>Elementary Particles</td>
<td></td>
</tr>
<tr>
<td>Or another course approved by the undergraduate advisor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recommended

Students are advised strongly to take the following courses as part of their electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
</tr>
</tbody>
</table>

Total Credits 55

1 PHYSICS 219 and PHYSICS 220 are strongly recommended; however, PHYSICS 209/PHYSICS 214 and PHYSICS 210/PHYSICS 215 courses may be taken with the consent of the undergraduate advisor.

2 These courses are not offered every semester; check with the undergraduate advisor to plan for completing this requirement.

3 The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.
Possible Course Substitutions for Students with Physics and Engineering Double Majors

Note: Students who major in both physics and engineering are not required to take PHYSICS 442; however, it is recommended strongly that they do so.

One of the following courses may be substituted for PHYSICS 270 or PHYSICS 370:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 280</td>
<td>Computer Based Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 151</td>
<td>Introduction to Scientific Programming in Fortran</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 250</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

The following course may be substituted for PHYSICS 317:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHENG 301</td>
<td>Basic Engineering Thermodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

The combination of both of the following may substitute for PHYSICS 411:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact the Department directly, physics-ugadvisor@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/physics/undergraduate/

Physics, Minor

Physics is the study of matter and energy and their interactions in nature and under man-made conditions. Everything is comprised of matter and energy so the principles of physics touch everything in the world around us and beyond the bounds of Earth into the Universe.

The opportunity to participate in research as an undergraduate is a distinct advantage to being a Physics student at UWM. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Requirements

A minor in physics requires 18 credits of Physics courses, of which 9 credits must be in courses at the 300 level or above taken in residence
Students are required to consult with the undergraduate physics advisor (physics-ugadvisor@uwm.edu) when planning their minor programs of study.

Contact Information
Current Students contact the Department directly, physics-ugadvisor@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/physics/undergraduate/

Physics, MS
The Physics Department exhibits exceptional strength in several areas. We invite applications from able students interested in experimental and theoretical surface physics and condensed matter physics; in structural biophysics and protein dynamics and function; in quantum field theory, cosmology, relativistic astrophysics, and gravitational-wave/multimessenger astronomy; in medical imaging. The primary goal of our graduate education is the training of creative research scientists.

Our research in gravitational physics is in several areas: In gravitational-wave astronomy, we play a leading role in LIGO, extracting signals of gravitational waves from the coalescence of binary neutron stars and black holes, as well as searching for electromagnetic counterparts. We play a leading role in the use of pulsars to measure gravity waves from supermassive black holes. In relativistic astrophysics we have established limits on the spin and mass of rotating neutron stars, and develop computational techniques to model merging stars. Astronomy efforts include studying early galaxy formation and evolution, and phenomenology of neutron stars and white dwarfs.

Experimental work in condensed matter and surface physics includes electron microscopy, electron and x-ray diffraction, atomic force microscopy, infrared spectroscopy, synchrotron radiation, molecular beam epitaxy, and atomic layer deposition. Experimental work is also being done in the areas of low-temperature physics, unconventional superconductivity (including high Tc), heavy fermions, topological insulators, materials synthesis and floating zone single crystal growth, oxides, magnetism, ultrasonomics, and neutron diffraction. These efforts are all aimed at creating and analyzing novel materials.

Theoretical work in condensed matter physics and surface physics includes research in quantum transport phenomena, superconductivity, magnetism, novel states of matter, and first-principles electronic structure calculations.

Experimental work in biophysics includes advanced optical and electrical methods for probing protein-protein interactions and protein complex structure and dynamics in vivo. Other efforts are in structural biophysics, static and time-resolved macromolecular crystallography, and XFEL-based femtosecond crystallography. Molecular biophysics studies include protein mechano-chemistry and single-molecule force spectroscopy.

Theoretical and computational work in biophysics includes advanced algorithms for signal extraction in the presence of extreme noise and timing uncertainty (XFEL and cryo-electron microscopy data) for protein crystallography, biostructure, dynamics, and function.

Experimental and theoretical efforts in medical imaging revolve around image reconstruction using Radon transformations, and novel imaging modalities such as thermo/opto-acoustic tomography.

Graduate Minor in Physics
A doctoral student in another department wishing to minor in Physics must choose a minor professor from among the Physics Graduate Faculty. The student and the minor professor plan a program of study consisting of 9 to 12 graduate credits in Physics and complete a Graduate Minor Program Plan for the Physics Department files.

Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Letters of Recommendation. Three letters of recommendation are required from persons familiar with the applicant’s academic work.
2. Graduate Record Examinations (http://uwm.edu/graduateschool/admission/#gre). Both the General Test and the Subject Test in Physics are strongly encouraged but are not required.
3. Undergraduate major in physics or related fields. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The newly admitted student is assigned to a temporary advisor.

Students in the master’s program who are planning to terminate their physics studies with a master’s degree should plan and prepare a program of study with the Department Master’s Program Advisor.
Credits and Courses

Option 1: Thesis Option

Minimum degree requirement is 30 graduate credits, 18 of which must normally be in physics and 12 of which may be in related fields. Of the 18 credits earned in the Department, at least 6 must be in physics courses numbered above 700, with the remainder in courses at least above 500; research, seminar, and independent study credits do not satisfy the 700 requirement. Six credits are earned through the thesis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics Courses</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>At least 6 numbered above 700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remainder at least above 500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics or Related Fields</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

**Thesis**
The student must write an acceptable thesis.

**Comprehensive Examination**
The student must pass a comprehensive oral examination, in part a defense of the thesis.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

Option 2: Non-Thesis Option

Minimum degree requirement is 30 graduate credits, 18 of which must normally be in physics and 12 of which may be in related fields. Of the 18 credits earned in the Department, at least 6 must be in physics courses numbered above 700, with the remainder in courses at least above 500; research, seminar, and independent study credits do not satisfy the 700 requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics courses</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>At least 6 numbered above 700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remaining 12 at least above 500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Related Fields</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

* Not including research, seminar, and independent study

**Thesis**
Not required.

**Comprehensive Examination**
The student must pass a comprehensive written or oral examination. The non-thesis master’s Oral Examination should evaluate the student’s achievements in graduate courses and fulfillmen of the goals of the student’s program of study. In particular, students should be familiar with the materials in the “core” courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 515</td>
<td>Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 531</td>
<td>Principles of Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 532</td>
<td>Principles of Quantum Mechanics II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Physics, PhD**
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Our research in gravitational physics is in several areas: In gravitational-wave astronomy, we play a leading role in LIGO, extracting signals of gravitational-waves from the coalescence of binary neutron stars and black holes, as well as searching for electromagnetic counterparts. We play a leading role in the use of pulsars to measure gravitational waves from supermassive black holes. In relativistic astrophysics we have established limits on the spin and mass of rotating neutron stars, and develop computational techniques to model merging stars. Astronomy efforts include studying early galaxy formation and evolution, and phenomenology of neutron stars and white dwarfs.

Experimental work in condensed matter and surface physics includes electron microscopy, electron and x-ray diffraction, atomic force microscopy, infrared spectroscopy, synchrotron radiation, molecular beam epitaxy, and atomic layer deposition. Experimental work is also being done in the areas of low-temperature physics, unconventional superconductivity (including high Tc), heavy fermions, topological insulators, materials synthesis and floating zone single crystal growth, oxides, magnetism, ultrasonics, and neutron diffraction. These efforts are all aimed at creating and analyzing novel materials.

Theoretical work in condensed matter and surface physics includes research in quantum transport phenomena, superconductivity, magnetism, novel states of matter, and first-principles electronic structure calculations.

Experimental work in biophysics includes advanced optical and electrical methods for probing protein-protein interactions and protein complex structure and dynamics in vivo. Other efforts are in structural biophysics, static and time-resolved macromolecular crystallography, and XFEL-based femtosecond crystallography. Molecular biophysics studies include protein mechano-chemistry and single-molecule force spectroscopy.

Theoretical and computational work in biophysics includes advanced algorithms for signal extraction in the presence of extreme noise and timing uncertainty (XFEL and cryo-electron microscopy data) for protein crystallography, biostructure, dynamics, and function.

Experimental and theoretical efforts in medical imaging revolve around image reconstruction using Radon transformations, and novel imaging modalities such as thermo/opto-acoustic tomography.

**Graduate Minor in Physics**
A doctoral student in another department wishing to minor in Physics must choose a minor professor from among the Physics Graduate
Faculty. The student and the minor professor plan a program of study consisting of 9 to 12 graduate credits in Physics and complete a Graduate Minor Program Plan for the Physics Department files.

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
Applicant must meet Graduate School requirements plus departmental requirements as given for admission to the master's program. A master's degree is not a prerequisite for this Ph.D. program.

**Reaplication**
A student who receives the master's degree must formally reapply for admission to the Graduate School before continuing studies toward the Ph.D.

**Credits and Courses**
Minimum degree requirement is 54 graduate credits beyond the bachelor’s degree, at least 27 of which must be earned in residence at UWM. The student plans an individual program of studies in consultation with the major professor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics core courses</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Additional credits numbered 700-999*</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Other courses and PHYSICS 990</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>54</td>
</tr>
</tbody>
</table>

* Not including courses 711, 720, 721, or 990. Physics 651 is included.

A student may elect to complete one of the following minor programs: a minor of 9 to 12 credits in a single department; a minor of 12 credits in two or more departments. Traditional fields for the minor are mathematics, other natural sciences, computer sciences and engineering. In planning a minor in a single department, the student is advised by the minor professor; in planning a minor in two or more departments, the student is advised by the major professor. The program of study is to be chosen with the major professor and the departmental academic graduate committee.

**Residence**
The student must meet minimum Graduate School residence requirements.

**Written Qualifying Examination**
Prior to taking the oral doctoral preliminary examination, the student must pass a written qualifying examination. The exam is designed to test a student's physics problem solving capabilities assuming a knowledge of physics equivalent to an advanced undergraduate at a premier institution. The exam is given at the start of the Fall and Spring semesters. Students have a maximum of 3 attempts to pass the exam and must take the exam each time that it is offered until passing the exam or exhausting the 3 allowed attempts.

**Doctoral Preliminary Examination and Doctoral Proposal Hearing**
The student must prepare a written proposal and pass an oral examination to qualify for formal admission to candidacy for the degree. The oral examination primarily seeks to determine the student’s preparation for independent research and the suitability of the proposed dissertation program. The Examination must be taken within four years of enrollment into the physics doctoral program and must be passed within five years of enrollment into the program.

**Dissertation**
The candidate must present a dissertation reporting the results of an original and independent research investigation representing substantive creative contribution.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

**Time Limit**
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.
POLITICAL SCIENCE

The Department of Political Science offers a comprehensive curriculum designed to provide a thorough understanding of politics while providing a foundation for careers in government, law, education, business, and other fields. In addition to courses on political ideas, behavior, and institutions at the local, state, national, and international levels, the department offers opportunities for students to participate in research projects, internship programs, scholarship competitions, study abroad, a political science honor society (http://uwm.edu/political-science/undergraduate/pi-sigma-alpha), and a program in law studies.

The curriculum is divided into four areas of study:

American Politics
American politics involves the study of U.S. political institutions at the national level (e.g., Congress, Presidency, Judiciary), state and local government and politics, political parties, interest groups, policy making, elections and voting behavior, public opinion, public law and the judicial process, constitutional interpretation, and the field of public administration.

Comparative Politics
Comparative politics studies political systems of nations outside the United States, including those in Western and Eastern Europe, Latin America, Asia, the Middle East, Africa, and Russia.

International Relations
International relations focuses on American foreign policy, international organizations (e.g., the United Nations), international economics, war and peace, and international law.

Political Theory
Political theorizing means questioning the assumptions underlying both politics and political science. Courses in political theory are designed to help students understand political experiences as they are interpreted by those who are engaged in politics and also by those who study it. Political theory therefore includes the history of political ideas, the writings of major theorists, and theories of history and the social sciences.

Programs
• Political Science, BA (p. 1686)
• Political Science, MA (p. 1690)
• Political Science, Minor (p. 1691)
• Political Science, PhD (p. 1692)

Political Science Courses

POL SCI 103 Introduction to Political Science
3 cr. Undergraduate.
An introduction to the systematic study of politics, including voting, parties, interest groups, executives, legislatures, courts, and political ideologies.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

POL SCI 104 Introduction to American Government and Politics
3 cr. Undergraduate.
How the American political system works, with emphasis on the Constitution, elections, political parties, interest groups, Congress, the presidency, the courts, and national policy making.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

POL SCI 105 State Politics
3 cr. Undergraduate.
Processes and functions of state governments and their relations with the national government and local governments; special emphasis on Wisconsin politics.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

POL SCI 106 Politics of the World's Nations
3 cr. Undergraduate.
Introduction to political issues facing the governments of industrialized and developing nations, democratic and authoritarian, considering the similarities and differences between these nations and America.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

POL SCI 110 Sex and Power
3 cr. Undergraduate.
Study of gender, sex, and sexuality as determined by law, power, and politics.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req’d service learning component.
General Education Requirements: CD
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

POL SCI 150 Multicultural America: Minority Voting Rights and Representation
3 cr. Undergraduate.
An introduction to minority voting rights, the Voting Rights Acts, and minority representation.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2016, Fall 2015, Spring 2013.
Current Offerings: http://uwm.edu/schedule

POL SCI 175 Introduction to International Relations
3 cr. Undergraduate.
Introduction to international relations, including the major subfields. Essential characteristics of the international system and the foreign policy objectives of states are discussed to give the beginning student a clearer view of world politics.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule
POL SCI 193 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

POL SCI 203 Introduction to Political Science Research
3 cr. Undergraduate.
An overview of quantitative political science research. The role of theory, research design, and measurement.
Prerequisites: one pol sci course.
Course Rules: Research methods course.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

POL SCI 210 American Public Policy
3 cr. Undergraduate.
Introduction to substantive policy issues and forces which influence their progress. Emphasis upon major values within political conflicts and the gap between policy goals and program implementation.
Prerequisites: none.
Course Rules: American politics course.
General Education Requirements: SS
Last Taught: Fall 2015, Spring 2015, Fall 2014, Summer 2000.
Current Offerings: http://uwm.edu/schedule

POL SCI 213 Urban Government and Politics
3 cr. Undergraduate.
The management, politics, and problems of city government.
Prerequisites: none.
Course Rules: American politics course.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

POL SCI 215 Ethnicity, Religion and Race in American Politics
3 cr. Undergraduate.
Nationality, racial and religion-based groups in American domestic and foreign policy-making; significance of cultural pluralism as a factor in the American political experience.
Prerequisites: none.
Course Rules: American politics course.
General Education Requirements: SS, CD
Last Taught: Summer 2017, Spring 2017, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

POL SCI 216 Environmental Politics
3 cr. Undergraduate.
Introductory course on the politics of environmental decisionmaking. Topics include the environmental movement, capitalism and the environment, climate change, and policymaking for environmental protection.
Prerequisites: none.
Course Rules: Counts as a repeat of Pol Sci 299 w/same topic.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

POL SCI 220 American Politics
3 cr. Undergraduate.
An overview of American politics. Focus on American politics as treated in the classic works of political thought.
Prerequisites: none.
Course Rules: Political theory course.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

POL SCI 234 Introduction to ULEAP
1-3 cr. Undergraduate.
Undergraduate Laboratory for Empirical Analysis of Politics (ULEAP). Hands-on research lab for recurring ULEAP projects. Students assist faculty with research projects, develop quantitative research skills.
Prerequisites: cons instr.
Course Rules: Requires 40 hrs of supervised research per cr. May be retaken to 9 cr max.
Last Taught: Spring 2012, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

POL SCI 243 Public Administration
3 cr. Undergraduate.
The means used to implement political values with emphasis on problems of administration in modern government.
Prerequisites: none.
Course Rules: Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another.
General Education Requirements: SS
Last Taught: Fall 2014, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

POL SCI 250 Law and Society
3 cr. Undergraduate.
The law and the operation of the legal system as they relate to contemporary social issues.
Prerequisites: none.
Course Rules: American politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 255 Great Issues of Politics
3 cr. Undergraduate.
Major problems in political thought, such as war and peace, justice and power, liberty and authority, identity and alienation, and stability and change.
Prerequisites: none.
Course Rules: Political theory course.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

POL SCI 281 Classics of Political Theory
3 cr. Undergraduate.
Power, authority, liberty, justice, law, and other basic ideas of politics and government as treated in the classic works of political thought.
Prerequisites: soph st.
Course Rules: Political theory course.
Current Offerings: http://uwm.edu/schedule

POL SCI 284 Public Administration
3 cr. Undergraduate.
The means used to implement political values with emphasis on problems of administration in modern government.
Prerequisites: none.
Course Rules: Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another.
General Education Requirements: SS
Last Taught: Fall 2014, Fall 2012, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

POL SCI 294 Undergraduate Research Participation
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance into UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs & srs.
Last Taught: Spring 2007.
Current Offerings: http://uwm.edu/schedule

POL SCI 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance into UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs & srs.
Last Taught: Spring 2007.
Current Offerings: http://uwm.edu/schedule
POL SCI 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content and credits are determined and/or in specially
prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/topic chg.
Current Offerings: http://uwm.edu/schedule

POL SCI 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

POL SCI 300 Western European Politics
3 cr. Undergraduate.
Survey of government and politics in Western Europe; comparative
perspectives on states, citizens, and public policies; current challenges.
Prerequisites: jr st or Pol Sci 106.
Course Rules: Comparative politics course.
Last Taught: Spring 2017, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

POL SCI 301 British Politics
3 cr. Undergraduate/Graduate.
Political process in Great Britain in the context of contemporary national
setting; emphasis on party system and constitutional order.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Fall 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

POL SCI 302 Politics of Eastern Europe
3 cr. Undergraduate/Graduate.
Evolution of modern nation-state systems in Eastern Europe; interactions
among nationalism, communism, and democracy in the countries of the
region since 1945.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 310 Russian and Post-Soviet Politics
3 cr. Undergraduate/Graduate.
Domestic politics of Russia and the other states of the former
Soviet Union; special emphasis is placed on transitions to and from
authoritarianism, political institutions, and market reforms.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 312 The Politics of Authoritarian Regimes
3 cr. Undergraduate/Graduate.
Comparison of modern authoritarian regimes. Emphasis is on their
domestic politics and methods of rule.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Fall 2016, Spring 2015, Fall 2013, Fall 1987.
Current Offerings: http://uwm.edu/schedule

POL SCI 314 Chinese Politics and Foreign Policy
3 cr. Undergraduate.
Historical background. Communism and its reform: leadership and
political change; economic policy; corruption; human rights; population;
environment; Tibet and Xinjiang; foreign policy.
Prerequisites: jr st or one pol sci course.
Course Rules: Comparative politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 316 International Law
3 cr. Undergraduate/Graduate.
Rules and principles of behavior which govern nations in their relations
with one another, as illustrated in texts and cases.
Prerequisites: jr st.
Course Rules: International politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 320 Politics of Developing Countries
3 cr. Undergraduate/Graduate.
Comparative analysis of political problems confronting developing
countries.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Spring 2014, Fall 2013, Spring 2013, Fall 2001.
Current Offerings: http://uwm.edu/schedule

POL SCI 321 Politics of Revolution in Developing Nations
3 cr. Undergraduate/Graduate.
The theory and description of political revolutions and rapid political
change in the twentieth century.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 325 Latin American Politics
3 cr. Undergraduate/Graduate.
Analysis of contemporary governments in Latin America, with particular
emphasis on the social way of life, the politics of economic organization
and government in action.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Last Taught: Fall 2017, Spring 2015, Fall 2013, Spring 2010.
Current Offerings: http://uwm.edu/schedule
POL SCI 326 Brazilian Politics and Society
3 cr. Undergraduate.
Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social environment.
Prerequisites: jr st.
Course Rules: Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Spring 2012.
Current Offerings: http://uwm.edu/schedule

POL SCI 328 The Arab-Israeli Conflict
3 cr. Undergraduate/Graduate.
Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.
Prerequisites: jr st.
Course Rules: Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

POL SCI 329 African Politics
3 cr. Undergraduate/Graduate.
The process of political change in contemporary Africa, with emphasis on the problems of nationalism and nation-building.
Prerequisites: jr st; Pol Sci 106(R).
Course Rules: Comparative politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 330 The Politics of International Economic Relations
3 cr. Undergraduate/Graduate.
Prerequisites: jr st.
Course Rules: International politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 333 Seminar in Comparative Politics:
3 cr. Undergraduate/Graduate.
Intensive study in selected aspects of comparative politics.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max. Enrollment limited to 15 students. Comparative politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 334 German Politics and the New Europe
3 cr. Undergraduate/Graduate.
Development of the two German republics after 1945; domestic and European issues of a unified Germany.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 335 Comparative Political Systems
3 cr. Undergraduate/Graduate.
Government and politics in various Western and developing countries, stressing common experience as well as differences conditioned by diverse circumstances.
Prerequisites: jr st.
Course Rules: Comparative politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 337 European Integration
3 cr. Undergraduate.
Evolution of the European Union, its institutions, and key policy developments related to the single market, common currency, enlargement, and the democratic deficit.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Summer 2017, Fall 2016, Summer 2016, Summer 2015.
Current Offerings: http://uwm.edu/schedule

POL SCI 338 Seminar in International Relations:
3 cr. Undergraduate/Graduate.
Intensive study in selected aspects of international relations. Add'l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st or one pol sci course.
Course Rules: International politics course.
Last Taught: Summer 2017, Fall 2016, Summer 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

POL SCI 339 European Integration
3 cr. Undergraduate/Graduate.
Evolution of the European Union, its institutions, and key policy developments related to the single market, common currency, enlargement, and the democratic deficit.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Summer 2017, Fall 2016, Summer 2016, Summer 2015.
Current Offerings: http://uwm.edu/schedule

POL SCI 340 Politics of Nuclear Weapons
3 cr. Undergraduate/Graduate.
Survey of nuclear war issues, including the effects of nuclear weapons, defense against nuclear attack, arms control, nuclear weapons proliferation, and nuclear ethics.
Prerequisites: jr st; course in pol sci or related field recom.
Course Rules: International politics course.
Last Taught: Summer 2017, Fall 2016, Summer 2016, Summer 2015.
Current Offerings: http://uwm.edu/schedule

POL SCI 341 Politics and Markets in Pacific-Rim Countries:
3 cr. Undergraduate/Graduate.
Introduction to the political-economic relationships among Pacific-Rim countries.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. Comparative politics course.
Current Offerings: http://uwm.edu/schedule
POL SCI 343 Asian International Relations
3 cr. Undergraduate.
Analysis of recent relations of the major powers in East, Southeast, and South Asia, especially the problems of the smaller states and the role of the United States.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Spring 2014.
Current Offerings: http://uwm.edu/schedule

POL SCI 346 U.S.-Latin American Relations
3 cr. Undergraduate.
Historic and contemporary inter-American relations, including issues such as U.S.-Cuban relations, drug trafficking, trade integration, international finance, and migration.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Fall 2014, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

POL SCI 355 The Politics of Economic Inequality
3 cr. Undergraduate.
The causes and political consequences of economic inequality.
Prerequisites: jr st or cons instr.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

POL SCI 359 Problems of American Foreign Policy
3 cr. Undergraduate/Graduate.
Analysis of problems confronting the United States in principal regions of the world, emphasizing the content and instrumentalities of recent policy, and considering alternative solutions.
Prerequisites: jr st.
Course Rules: International politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 361 History of International Political Thought
3 cr. Undergraduate/Graduate.
History of international political thought. Statist and internationalist theories of sovereignty, war, intervention, and international law.
Prerequisites: jr st.
Course Rules: Political theory or international politics course.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

POL SCI 365 Theories and Methods in International Politics
3 cr. Undergraduate/Graduate.
Empirical, theoretical, and quantitative analyses of international relations.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Spring 2018, Fall 2013, Spring 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

POL SCI 368 Gender and Politics in Developing Nations
3 cr. Undergraduate/Graduate.
Gender and politics in Latin America, East/South Asia, the Middle East, integrating works from political science, feminist theory, development studies, public health, women's studies.
Prerequisites: jr st.
Course Rules: Counts as a repeat of Pol Sci 333 w/same subtitle. Enrollment limited to 15 students. Comparative politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 370 International Conflict
3 cr. Undergraduate/Graduate.
Theoretical and quantitative studies of international conflict and war. Includes individual, national, and systemic approaches.
Prerequisites: jr st.
Course Rules: International politics course.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

POL SCI 371 Nationalism and Ethnic Conflict
3 cr. Undergraduate.
Origins of nations. Nationalism and the decline of empires. Origins and strategies of ethnic wars. How ethnic wars end. International intervention. Case studies, such as Arab-Israeli and India-Pakistan conflicts. Comparative or international politics course. Prereq: jr st or one pol sci course.
Prerequisites:

General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

POL SCI 372 Poverty and Politics:
3 cr. Undergraduate.
Causes and political consequences of poverty and social inequality worldwide.
Prerequisites: jr st.
Course Rules: Counts as repeat of Pol Sci 499 w/same topic. May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2016, Summer 2016, Summer 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

POL SCI 374 Health, Wealth, and Democracy
3 cr. Undergraduate.
The relationship between the democracies and wealth, and health care outcomes.
Prerequisites: The relationship between the democracies and wealth, and health care outcomes.
Current Offerings: http://uwm.edu/schedule

POL SCI 377 Elections in the Modern World
3 cr. Undergraduate.
Role of elections in contemporary political regimes; representation, accountability, electoral institutions, elections in new democracies, and electoral authoritarian regimes.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2015.
Current Offerings: http://uwm.edu/schedule
POL SCI 379 Morality, Conflict and War
3 cr. Undergraduate.
Examines the conditions that make for war and peace in world politics, and considers relevant moral and ethical arguments about war.
Prerequisites: jr st
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

POL SCI 380 Honors Seminar:
3 cr. Undergraduate.
Selective topics in the study of politics.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max. Political theory course.

General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

POL SCI 381 The Development of Western Political Thought
3 cr. Undergraduate/Graduate.
Political theory from the Greek era to the present.
Prerequisites: jr st; grade of C or better in English 102(P) or score level 4 on EPT.
Course Rules: Political theory course.

Current Offerings: http://uwm.edu/schedule

POL SCI 382 Modern Political Thought
3 cr. Undergraduate/Graduate.
Liberal democracy, traditional conservatism, fascism, communism and socialism, with emphasis on the development and problems of democracy.
Prerequisites: jr st.

Course Rules: Political theory course.

Last Taught: Fall 2017, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

POL SCI 384 The Philosophy of Law
3 cr. Undergraduate/Graduate.
The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.
Prerequisites: jr st, 3 cr in philos or previous course in political theory or law studies recom.

Course Rules: Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another. Political theory course.

Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2014.
Current Offerings: http://uwm.edu/schedule

POL SCI 385 American Political Thought
3 cr. Undergraduate/Graduate.
Survey of main currents of American political thought from colonial times to the present.
Prerequisites: jr st.

Course Rules: Political theory course.

Last Taught: Spring 2018, Fall 2017, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

POL SCI 386 Contemporary Political Theory
3 cr. Undergraduate/Graduate.
Survey of current work in different branches of political theory, including formal, analytical, and critical theory.
Prerequisites: jr st.

Course Rules: Political theory course.

Current Offerings: http://uwm.edu/schedule

POL SCI 387 Topics in American Politics:
3 cr. Undergraduate/Graduate.
Intensive study in selected aspects of American politics.
Prerequisites: jr st.

Course Rules: May be retaken w/chg in topic to 6 cr max. American politics course.

Last Taught: Spring 2013, Fall 2011, Summer 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

POL SCI 388 Latino Politics
3 cr. Undergraduate.
Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses; Chicano movement, immigration policies, public opinion, voting behavior, representation.
Prerequisites: jr st.

Course Rules: Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another.

General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

POL SCI 389 Politics and Philosophy:
3 cr. Undergraduate/Graduate.
Ideas and methods in recent political theory, including the history of political thought, analytical political philosophy, and critical theory.
Prerequisites: jr st; one course in political theory.

Course Rules: Political theory course. May be retaken w/chg in topic to 6 cr max.

Current Offerings: http://uwm.edu/schedule

POL SCI 390 Political Data Analysis
3 cr. Undergraduate/Graduate.
Research design, measurement, and techniques of political data analysis.
Prerequisites: jr st; satisfaction of GER Quantitative Literacy Part A req.

Course Rules: Research methods course.

General Education Requirements: QLB
Current Offerings: http://uwm.edu/schedule

POL SCI 391 Current Crises and Events in International Relations
3 cr. Undergraduate.
Examines several current crises or challenging international events--defined as unstable, pressing international situations in which significant change appears imminent.
Prerequisites: jr st.

Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule
POL SCI 392 Survey Research
3 cr. Undergraduate/Graduate.
Theory and practice of survey techniques. Planning, design, sampling, types of data, questionnaire construction, interviewing, field operation, and coding examples in a variety of fields.
Prerequisites: jr st.
Course Rules: Research methods course.
Current Offerings: http://uwm.edu/schedule

POL SCI 398 Cyber-Politics:
3 cr. Undergraduate.
Study of politics using internet sources, especially the Worldwide Web.
Prerequisites: jr st; one social sci course.
Course Rules: May not be retaken for degree cr.
Current Offerings: http://uwm.edu/schedule

POL SCI 405 State Government:
3 cr. Undergraduate/Graduate.
Selected topics in state government and politics with special emphasis on Wisconsin.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. American politics course.
Last Taught: Fall 2013, Spring 2013, Fall 2012, Fall 2002.
Current Offerings: http://uwm.edu/schedule

POL SCI 408 The American Presidency
3 cr. Undergraduate/Graduate.
Study of the office and powers of the president, with an analysis of his major roles as chief administrator, legislative leader, political leader, initiator of foreign policies, Commander-in-Chief and head of state.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Fall 2016, Fall 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

POL SCI 411 Constitutional Law: Government Powers and Federalism
3 cr. Undergraduate.
Constitutional interpretation, with emphasis on separation of powers, federalism, and property.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

POL SCI 412 Constitutional Law: Civil Rights and Liberties
3 cr. Undergraduate/Graduate.
Cases in civil rights and liberties in such areas as equal protection, due process, and First Amendment freedoms.
Prerequisites: jr st.
Course Rules: American politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 415 The Politics of Race, Ethnicity and Immigration
3 cr. Undergraduate.
Racial/ethnic histories in the US; political difference and commonality; influence of immigration on political behavior and attitudes.
Prerequisites: jr st.
General Education Requirements: CD
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

POL SCI 416 Judicial Politics
3 cr. Undergraduate/Graduate.
Trial and appellate court structure; litigation in federal and state contexts; key actors in the judicial process, including litigants, lawyers, judges, and juries.
Prerequisites: jr st.
Course Rules: American politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 417 The Supreme Court
3 cr. Undergraduate/Graduate.
Behavior of U.S. Supreme Court justices and other appellate judges and courts within the judicial and political systems.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Fall 2016, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

POL SCI 419 Constitutional Interpretation
3 cr. Undergraduate/Graduate.
Analysis of contemporary interpretive themes, including judicial activism, the living Constitution, and critical theories of law.
Prerequisites: Pol Sci 411(P) or 412(P).
Course Rules: American politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 421 Party Politics in America
3 cr. Undergraduate/Graduate.
The role of political parties in the nominating process, campaigns, fund raising, voter choice, and the governing processes of Congress and the presidency.
Prerequisites: jr st; Pol Sci 103(P) or 104(P).
Course Rules: American politics course.
Last Taught: Fall 2015, Spring 2013, Fall 2011, Spring 2011.
Current Offerings: http://uwm.edu/schedule

POL SCI 423 Conduct of American Foreign Affairs
3 cr. Undergraduate/Graduate.
Descriptive analysis of the way American foreign policy is formulated and carried out by federal agencies.
Prerequisites: jr st.
Course Rules: International Politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 425 Women in Politics
3 cr. Undergraduate.
Political attitudes and behavior of women; socialization and selection of women for political offices; and women's issues in politics.
Prerequisites: jr st.
Course Rules: American politics course.
Current Offerings: http://uwm.edu/schedule
POL SCI 426 Congressional Politics
3 cr. Undergraduate/Graduate.
The role of Congress in shaping public policy, with emphasis on the impact of elections, lawmaking procedures, congressional committees, political parties, interest groups, and presidents.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Spring 2016, Fall 2014, Fall 2012, Spring 2012.
Current Offerings: http://uwm.edu/schedule

POL SCI 444 Politics and the Bureaucracy
3 cr. Undergraduate/Graduate.
The role of the bureaucracy in policymaking. Political resources of bureaucracy, its ability to influence policy outcomes. Political controls on bureaucracy, and proposals for reform.
Prerequisites: jr st.
Course Rules: American politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 450 Urban Political Problems
3 cr. Undergraduate/Graduate.
Reading and analysis of specific urban problems and governmental responses.
Prerequisites: jr st.
Course Rules: American politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 452 Administrative Law
3 cr. Undergraduate/Graduate.
An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory, investigatory, and enforcement activities of administrative agencies.
Prerequisites: jr st.
Course Rules: American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

POL SCI 464 Sex, Gender, and the Law
3 cr. Undergraduate.
Topics in federal and state law pertaining to women, gender, and feminism, such as reproductive rights, domestic violence, and pay equity.
Prerequisites: jr st.
Course Rules: American politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 467 Elections and Voting Behavior
3 cr. Undergraduate/Graduate.
Psychological and social components of voting behavior, current electoral trends, and role of voters in the governing process.
Prerequisites: jr st.
Course Rules: American politics course.
Last Taught: Fall 2016, Fall 2012, Fall 2008, Fall 2006.
Current Offerings: http://uwm.edu/schedule

POL SCI 471 Problems in Law Studies:
3 cr. Undergraduate/Graduate.
Discussion of selected problems in contemporary law and politics, such as civil rights movements or law and sexuality.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max. American politics course.
Current Offerings: http://uwm.edu/schedule

POL SCI 473 Public Opinion
3 cr. Undergraduate/Graduate.
Formation of opinions within and among political publics; role of public opinion in the development and practice of governmental policy.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

POL SCI 489 Internship in Political Science
1-6 cr. Undergraduate.
Application of advanced principles in political science in a governmental or political setting.
Prerequisites: jr st; 3.0 GPA; cons supervising faculty member.
Course Rules: One cr earned for academic work related to each 40 hrs of internship work. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

POL SCI 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/topic chg.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

POL SCI 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2013, Fall 2010, Spring 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

POL SCI 500 Capstone Course in Political Science
3 cr. Undergraduate.
Readings and discussions about fundamental political science problems; directed research project tailored to each student’s special interests.
Prerequisites: sr st; declared pol sci major; Pol Sci 203(P), 390(P), or 392(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
POL SCI 678 Advanced Undergraduate Laboratory for the Empirical Analysis of Politics
1-3 cr. Undergraduate.
Advanced students enhance their research skills by assisting faculty members on political science research projects in collaboration with other students.
Prerequisites: jr st; cons instr.
Course Rules: Requires 40 hrs of supervised research per cr. May be retaken to 9 cr max.
Last Taught: Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

POL SCI 699 Independent Reading
1-6 cr. Undergraduate.
Students with superior grade-point averages and special aptitudes may be given permission to earn up to 6 cr toward the major by writing a thesis or doing directed research or reading. See Advanced Independent Study for further information. Consult the Political Science Chair.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

POL SCI 700 Scope and Methods of Political Science
3 cr. Graduate.
Critical examination of the normative and empirical methodologies of political science.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

POL SCI 701 Techniques of Political Science Research
3 cr. Graduate.
Introduction to basic techniques of collecting, coding, processing, analyzing, and presenting political data.
Prerequisites: grad st; one undergrad stats course or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

POL SCI 702 Advanced Techniques of Political Science Research
3 cr. Graduate.
Advanced course in quantitative analysis stressing the application of econometric techniques to the study of politics.
Prerequisites: grad st; Pol Sci 701(P).
Current Offerings: http://uwm.edu/schedule

POL SCI 704 Seminar in Nonprofit Organizations
3 cr. Graduate.
Overview of structure, functions, and governance of nonprofit organizations. Comparison with government and for-profit organizations.
Prerequisites: grad st.
Course Rules: Nonprof 704, Pol Sci 704, Sociol 704, & Urb Std 704 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

POL SCI 705 Professionals and Volunteers in Nonprofit Organizations
3 cr. Graduate.
Seminar in techniques of management of professionals and volunteers in nonprofit organizations.
Prerequisites: grad st.
Course Rules: Nonprofit 705 & Pol Sci 705 are jointly offered; they count as repeats of one another.
Last Taught: Summer 2016, Summer 2013, Summer 2011, Summer 2010.
Current Offerings: http://uwm.edu/schedule

POL SCI 711 Current Topics in Political Science:
1-3 cr. Graduate.
This course will address a specific topic or methodological approach of general disciplinary importance.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic & cons advisor & instr to 6 cr max.
Last Taught: Fall 2017, Spring 2017, Spring 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

POL SCI 715 Introduction to Comparative Politics I
3 cr. Graduate.
The second course in a graduate introduction to comparative politics. Foundation for students considering further work in comparative politics; emphasis on empirical research literature.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

POL SCI 716 Intro to Comparatv Politics II
3 cr. Graduate.
The second course in a graduate introduction to comparative politics. Foundation for students considering further work in comparative politics; emphasis on empirical research literature.
Prerequisites: grad st; Pol Sci 715(P) or cons instr
Last Taught: Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

POL SCI 720 Theoretical and Methodological Issues of Comparative Politics
3 cr. Graduate.
Seminar on theory construction, research design, and the logic of comparative social inquiry.
Prerequisites: grad st.
Last Taught: Fall 2007, Fall 2003, Fall 2000, Fall 1998.
Current Offerings: http://uwm.edu/schedule

POL SCI 725 Judicial Politics and Behavior
3 cr. Graduate.
Readings in the field of judicial politics and behavior, with particular attention to decision making in collegial courts and to scientific methods of analysis.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2013, Spring 2009, Fall 2006.
Current Offerings: http://uwm.edu/schedule

POL SCI 727 Seminar in Constitutional Law
3 cr. Graduate.
Major trends in constitutional case law and in critical analysis of the role of the court in american democracy.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule
POL SCI 749 Seminar in American Political Institutions  
3 cr. Graduate.  
Overview of political institutions including executives, legislatures, bureaucracies, courts, interest groups and others and the role they play in the political and policy process.  
Prerequisites: grad st.  
Last Taught: Fall 2016, Spring 2015, Fall 2012, Spring 2011.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 750 Seminar in the Study of American Political Behavior  
3 cr. Graduate.  
Readings and research on a broad range of topics related to political behavior. Concentration on the political science literature on mass political behavior with some attention to the behavior of political elites.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 751 Seminar in Public Policy Formation  
3 cr. Graduate.  
Nature and consequences of constraints upon policy-makers in public institutions.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 763 Scope and Dynamics of Public Administration  
3 cr. Graduate.  
The field of public administration, including organization theory, public management, the politics of administration, and the role of government in policy-making.  
Prerequisites: grad st.  
Course Rules: Pol Sci 763 & Pub Adm 763 are jointly offered; they count as repeats of one another.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 769 Analyzing and Evaluating Public Policies and Programs  
3 cr. Graduate.  
Examination of methods, including cost-benefit analysis and decision analysis, that aid policy makers and administrators in understanding and assessing public and nonprofit sector policies and programs.  
Prerequisites: grad st.  
Course Rules: Pol Sci 769 & Pub Adm 769 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 791 Nonprofit Advocacy and Public Policy  
3 cr. Graduate.  
Prerequisites: grad st  
Course Rules: Nonprofit 791 & Pol Sci 791 are jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 793 Law of Nonprofit Organizations  
3 cr. Graduate.  
Legal concepts and issues relevant to the formations and operations of nonprofit organizations. Complying with applicable federal and state statutes and regulations.  
Prerequisites: grad st  
Course Rules: Nonprof 793 & Pol Sci 793 are jointly offered; they count as repeats of one another.  
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 801 Proseminar in Political Theory  
3 cr. Graduate.  
Political theory for graduate students in any field, based on historical and contemporary texts that illustrate different understandings of politics and political theory.  
Prerequisites: grad st  
Last Taught: Fall 2013, Spring 2012.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 814 Major Political Theorists:  
3 cr. Graduate.  
Consideration of selected political theorists, periods, or traditions. Attention given to issues of textural interpretation, historical context, and conceptual analysis.  
Prerequisites: grad st.  
Course Rules: Retakable w/chg in topic to 6 cr max.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 815 Problems in Political Theory:  
3 cr. Graduate.  
Selected concepts and controversies in the historical and contemporary literature of political theory, such as authority, obligation, equality, justice and the explanation of human conduct.  
Prerequisites: grad st.  
Course Rules: Retakable w/chg in topic to 6 cr max.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 816 Seminar in Positive Political Theory:  
3 cr. Graduate.  
Selected topics in rationality-based approaches to the study of politics.  
Prerequisites: grad st; Pol Sci 701(817)(P) & 875(P).  
Course Rules: Retakable w/chg in topic to 6 cr max.  
Last Taught: Fall 2011, Fall 2009, Fall 2007, Fall 2001.  
Current Offerings: http://uwm.edu/schedule  

POL SCI 817 Feminist Theory and Politics  
3 cr. Graduate.  
Examination and analysis of historical and theoretical aspects of feminist theory and politics including liberal, cultural, radical, postmodern, and queer political theory.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule
POL SCI 818 Theories of International Political Economy  
3 cr. Graduate. 
Analysis of major political theories of international economic relations. 
Examine international political economy issues in industrial developing, 
and communist countries. 
Prerequisites: grad st; intro courses in Econ & Intrel. 
Last Taught: Fall 2014, Fall 2011, Fall 2008, Fall 2003. 
Current Offerings: [link]

POL SCI 855 Comparative Urban Politics  
3 cr. Graduate. 
Examination of critical roles, structures, and processes of urban politics 
in different cultural settings. Selected to facilitate comparisons between 
the urban political process in developed and underdeveloped nations. 
Prerequisites: second semester grad student. 
Current Offerings: [link]

POL SCI 888 Candidate for Degree  
0 cr. Graduate. 
Available for graduate students who must meet minimum credit load 
requirements. 
Prerequisites: grad st. 
Course Rules: Fee assessed for 1 cr. 
Last Taught: Summer 2017, Fall 2012, Summer 2012, Summer 2011. 
Current Offerings: [link]

POL SCI 913 Seminar in Urban Political Process  
3 cr. Graduate. 
Analysis of the forces and processes that shape urban political life, 
with particular emphasis on patterns of government, political culture, 
power structures, and civic participation in urban and metropolitan 
communities. 
Prerequisites: grad st. 
Course Rules: Pol Sci 913 & Urb Std 913 are jointly-offered; they count as 
repeats of one another. 
Current Offerings: [link]

POL SCI 914 Seminar in Intergovernmental Relations  
3 cr. Graduate. 
Policy issues in intergovernmental relations and the complex 
governmental context in which Americans live and work. 
Prerequisites: grad st. 
Course Rules: Pol Sci 914 & Pub Adm 914 are jointly-offered; they count as 
repeats of one another. 
Last Taught: Spring 2016, Fall 2014, Fall 2013, Spring 2012. 
Current Offerings: [link]

POL SCI 925 Applied Bayesian Modeling for the Social Sciences  
3 cr. Graduate. 
Theoretical foundations of Bayesian in comparison to Frequentist 
inference as well as applications of MCMC simulation to GLMs, 
hierarchical, time-series and measurement models. 
Prerequisites: grad st; Pol Sci 701(817)(P). 
Last Taught: Fall 2015, Fall 2013, Fall 2011, Fall 2009. 
Current Offerings: [link]

POL SCI 929 Seminar in Voting Behavior  
3 cr. Graduate. 
Voter decision making within and between elections. 
Prerequisites: grad st. 
Current Offerings: [link]

POL SCI 935 Seminar in Advanced Political Science Methodology  
3 cr. Graduate. 
An advanced seminar in selected topics on political science 
methodology. 
Prerequisites: grad st; Pol Sci 701(817)(P). 
Current Offerings: [link]

POL SCI 950 Seminar in Comparative Politics: Western Nations  
3 cr. Graduate. 
Variable content course. 
Prerequisites: grad st. 
Course Rules: Retakable w/chg in topic to 6 cr max. 
Last Taught: Spring 2018, Spring 2016, Fall 2013, Fall 2011. 
Current Offerings: [link]

POL SCI 953 Seminar in American Foreign Policy  
3 cr. Graduate. 
Analysis-in-depth of selected issues in the formulation and execution of 
American foreign policy, emphasizing recent problems, changes in world 
conditions, and methods of studying American policy. 
Prerequisites: grad st. 
Last Taught: Spring 2016, Fall 2012, Fall 2010, Fall 2006. 
Current Offerings: [link]

POL SCI 956 Political Culture and Behavior: Industrial Nations  
3 cr. Graduate. 
Political culture and mass political behavior in industrialized societies, 
including theories of ideology, multiculturism, and political parties. A 
data-based paper is required. 
Prerequisites: grad st; Pol Sci 701(817)(P) or equiv prep in statistics. 
Current Offerings: [link]

POL SCI 960 International Conflict  
3 cr. Graduate. 
Examines positive theories and quantitative research pertaining to 
causes and resolution of international conflict. 
Prerequisites: grad st. 
Current Offerings: [link]
POL SCI 962 Ethnic Conflict
3 cr. Graduate.
Origins, strategies, duration, and termination of ethnic conflicts; international intervention.
Prerequisites: grad st
Last Taught: Spring 2017, Fall 2013, Spring 2010.
Current Offerings: http://uwm.edu/schedule

POL SCI 963 Seminar in Judicial Process and Behavior
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

POL SCI 964 Seminar in Constitutional Politics
3 cr. Graduate.
Various approaches to the study of constitutional politics, including law as ideology, noninterpretivism, originalism, and departmentalism.
Prerequisites: grad st; Pol Sci 727(P).
Current Offerings: http://uwm.edu/schedule

POL SCI 972 Interest Groups and Public Policy
3 cr. Graduate.
Research seminar in the formal and informal role of interest groups in policy development enactment, and administration access and tactics of political pressure, analysis of private and public power relationships.
Prerequisites: grad st.
Last Taught: Fall 2007, Fall 2005, Fall 2003, Spring 2002.
Current Offerings: http://uwm.edu/schedule

POL SCI 973 Political Parties
3 cr. Graduate.
Selection of problems and design of research on the organization and processes of political parties.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

POL SCI 974 Seminar in Politics and Public Policy
3 cr. Graduate.
Research in the formulation and execution of public policy in democratic society.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

POL SCI 975 Comparative Authoritarianism
3 cr. Graduate.
Domestic and international politics of authoritarian regimes; methods of rule, regime survival strategies, and political economy.
Prerequisites: grad st.
Last Taught: Fall 2016, Spring 2014.
Current Offerings: http://uwm.edu/schedule

POL SCI 976 Seminar in Comparative Public Policy:
3 cr. Graduate.
Major theories and methods in comparative public policy relevant to specific areas of the world. Area focus varies from semester to semester.
Prerequisites: grad st.
Course Rules: Retakable w/ chg in topic to 6 cr max.
Last Taught: Spring 2015, Spring 2013, Fall 2009.
Current Offerings: http://uwm.edu/schedule

POL SCI 990 Research and Thesis
1-3 cr. Graduate.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

POL SCI 999 Independent Work
1-3 cr. Graduate.
Individual work directed by a member of the graduate faculty.
Prerequisites: grad st & cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

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<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Ivan Ascher</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
<td>✓</td>
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<tr>
<td>Carol E. Baumann</td>
<td>Professor Emerita</td>
<td>PhD</td>
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<tr>
<td>Robert J. Beck</td>
<td>Associate Professor, Associate Vice Chancellor</td>
<td>PhD</td>
<td>Georgetown University</td>
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<tr>
<td>Natasha Borges</td>
<td>Associate Professor, Interim Director for Center for Latin American and Caribbean Studies</td>
<td>PhD</td>
<td>University of Texas-Austin</td>
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<td>Sugiyama</td>
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<tr>
<td>Eric C. Browne</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Maryland-College Park</td>
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<tr>
<td>Kathleen Dolan</td>
<td>Distinguished Professor, Chair</td>
<td>PhD</td>
<td>University of Hawaii</td>
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<tr>
<td>Marcus E. Ethridge</td>
<td>Professor Emeritus</td>
<td>PhD</td>
<td>University of Hawaii</td>
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<tr>
<td>Kennan Ferguson</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Hawaii</td>
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<tr>
<td>David C. Garnham</td>
<td>Professor Emeritus</td>
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<tr>
<td>Howard Handelman</td>
<td>Professor Emeritus</td>
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<td>Brett W. Hawkins</td>
<td>Professor Emeritus</td>
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<td>Uk Heo</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
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Political Science, BA

Political science is the study of governments, political processes, public policies and political behavior by groups or individuals and is an ideal major for students with a passion for current events.

At UWM, students take coursework from four broad areas of political science in order to obtain a well-rounded education in the field: American politics, international relations, comparative politics, and political theory. Along with exploring these substantive areas, students strengthen their research, writing, and critical thinking skills. With this background, students leave UWM ready to enter graduate school or the world of work in government, international organizations, campaigns, business, consulting, nonprofits, and many other industries. This broad major is available entirely online, or students can mix-and-match and take a some online and some traditional classes.

Many students find that a degree in Political Science aligns well with their interest in law and their plans to attend law school after college. We offer a large number of courses in constitutional law and legal practice in society, and students can focus their electives around these as part of the Law Studies option within the Political Science major. Students planning for law school also often participate in our law sports programs such as intercollegiate moot court and intercollegiate mock trial.

Internships are encouraged for all majors, and opportunities can be found locally as well in Washington DC.

Since 1966, students from all UW System campuses and other universities have participated in the United Nations Summer Seminar (http://uwm.edu/political-science/undergraduate/u-n-summer-seminar). This five-week, six-credit program is partially held at United Nations Headquarters in Manhattan. The four weeks in New York include special access to U.N. facilities and intensive interaction with over 40 experts representing governments and international organizations.

### Requirements

#### Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

#### University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
</tbody>
</table>

#### Oral and Written Communication

- **Part A**: ENGLISH 102 College Writing and Research (or equivalent)

#### Quantitative Literacy

- **Part A**: Select one of the following:
  - MATH 103 Contemporary Applications of Mathematics

---

### Faculty

- Thomas M. Holbrook, Distinguished Professor, PhD, University of Iowa
- Shale A. Horowitz, Professor, PhD, University of California-Los Angeles
- David Nachmias, Professor Emeritus, PhD, Northern Illinois University
- Terry Nardin, Professor Emeritus, PhD, University of South Carolina
- Erin Olsen (Kaheny), Associate Professor, PhD, University of Oregon
- Hong Min Park, Associate Professor, PhD, Washington University
- Sara Pashak (Benesh), Associate Professor, PhD, Michigan State University
- Stephen L. Percy, Professor Emeritus, PhD
- Donald Pienkos, Professor Emeritus, PhD
- Joel Rast, Associate Professor, PhD, University of Oregon
- Steven Redd, Associate Professor, PhD, Texas A&M University
- Ora John Reuter, Associate Professor, PhD, Emory University
- Paru Shah, Associate Professor, PhD, Rice University
- Mark Tessler, Professor Emeritus, PhD
- John Wanat, Professor Emeritus, PhD
- Meredith W. Watts, Professor Emeritus, PhD
- Ronald E. Weber, Professor Emeritus, PhD
MATH 105  Introduction to College Algebra
MATH 108  Algebraic Literacy II
Or equivalent course

Part B
Course designated as QL-B; may be completed through a major-specific course requirement

Arts
Select 3 credits

Humanities
Select 6 credits

Social Sciences
Select 6 credits

Natural Sciences
Select 6 credits (at least two courses including one lab)

UWM Foreign Language Requirement
Complete Foreign Language Requirement through:
  Two years (high school) of a single foreign language
  Two semesters (college) of a single foreign language
  Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Completed in one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td>0-18</td>
</tr>
<tr>
<td></td>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
</tr>
</tbody>
</table>

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.
VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Political Science Major Requirements
Majors must attain a 2.500 GPA in all political science courses, including any transfer work, and a 2.500 GPA in political science courses taken at UWM. Majors are required to complete a minimum of 30 credits in political science, of which at least 15 must be in upper-division courses (numbered 300 or above) taken in residence at UWM. The following courses must be included among those taken for major credit.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 103</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>or POL SCI 104</td>
<td>Introduction to American Government and Politics</td>
<td></td>
</tr>
</tbody>
</table>

Methods Requirement
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 203</td>
<td>Introduction to Political Science Research</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
</tbody>
</table>

Political Area Requirements
Select at least one course beyond the 100 level in each of the following four areas of political science:

American Politics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 150</td>
<td>Multicultural America: Minority Voting Rights and Representation</td>
<td></td>
</tr>
<tr>
<td>POL SCI 210</td>
<td>American Public Policy</td>
<td></td>
</tr>
<tr>
<td>POL SCI 213</td>
<td>Urban Government and Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 215</td>
<td>Ethnicity, Religion and Race in American Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 216</td>
<td>Environmental Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 250</td>
<td>Law and Society</td>
<td></td>
</tr>
<tr>
<td>POL SCI 387</td>
<td>Topics in American Politics:</td>
<td></td>
</tr>
<tr>
<td>POL SCI 388</td>
<td>Latino Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 405</td>
<td>State Government</td>
<td></td>
</tr>
<tr>
<td>POL SCI 408</td>
<td>The American Presidency</td>
<td></td>
</tr>
<tr>
<td>POL SCI 411</td>
<td>Constitutional Law: Government Powers and Federalism</td>
<td></td>
</tr>
<tr>
<td>POL SCI 412</td>
<td>Constitutional Law: Civil Rights and Liberties</td>
<td></td>
</tr>
<tr>
<td>POL SCI 415</td>
<td>The Politics of Race, Ethnicity and Immigration</td>
<td></td>
</tr>
<tr>
<td>POL SCI 416</td>
<td>Judicial Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 417</td>
<td>The Supreme Court</td>
<td></td>
</tr>
<tr>
<td>POL SCI 419</td>
<td>Constitutional Interpretation</td>
<td></td>
</tr>
<tr>
<td>POL SCI 421</td>
<td>Party Politics in America</td>
<td></td>
</tr>
<tr>
<td>POL SCI 425</td>
<td>Women in Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 426</td>
<td>Congressional Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 444</td>
<td>Politics and the Bureaucracy</td>
<td></td>
</tr>
<tr>
<td>POL SCI 450</td>
<td>Urban Political Problems</td>
<td></td>
</tr>
<tr>
<td>POL SCI 452</td>
<td>Administrative Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 464</td>
<td>Sex, Gender, and the Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 467</td>
<td>Elections and Voting Behavior</td>
<td></td>
</tr>
<tr>
<td>POL SCI 471</td>
<td>Problems in Law Studies</td>
<td></td>
</tr>
<tr>
<td>POL SCI 473</td>
<td>Public Opinion</td>
<td></td>
</tr>
</tbody>
</table>
Comparative Politics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 300</td>
<td>Western European Politics</td>
</tr>
<tr>
<td>POL SCI 301</td>
<td>British Politics</td>
</tr>
<tr>
<td>POL SCI 302</td>
<td>Politics of Eastern Europe</td>
</tr>
<tr>
<td>POL SCI 310</td>
<td>Russian and Post-Soviet Politics</td>
</tr>
<tr>
<td>POL SCI 312</td>
<td>The Politics of Authoritarian Regimes</td>
</tr>
<tr>
<td>POL SCI 314</td>
<td>Chinese Politics and Foreign Policy</td>
</tr>
<tr>
<td>POL SCI 320</td>
<td>Politics of Developing Countries</td>
</tr>
<tr>
<td>POL SCI 321</td>
<td>Politics of Revolution in Developing Nations</td>
</tr>
<tr>
<td>POL SCI 325</td>
<td>Latin American Politics</td>
</tr>
<tr>
<td>POL SCI 326</td>
<td>Brazilian Politics and Society</td>
</tr>
<tr>
<td>POL SCI 328</td>
<td>The Arab-Israeli Conflict</td>
</tr>
<tr>
<td>POL SCI 329</td>
<td>African Politics</td>
</tr>
<tr>
<td>POL SCI 333</td>
<td>Seminar in Comparative Politics:</td>
</tr>
<tr>
<td>POL SCI 334</td>
<td>German Politics and the New Europe</td>
</tr>
<tr>
<td>POL SCI 335</td>
<td>Comparative Political Systems</td>
</tr>
<tr>
<td>POL SCI 341</td>
<td>Politics and Markets in Pacific-Rim Countries:</td>
</tr>
<tr>
<td>POL SCI 368</td>
<td>Gender and Politics in Developing Nations</td>
</tr>
<tr>
<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
</tr>
<tr>
<td>POL SCI 372</td>
<td>Poverty and Politics:</td>
</tr>
<tr>
<td>POL SCI 374</td>
<td>Health, Wealth, and Democracy</td>
</tr>
</tbody>
</table>

International Politics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 316</td>
<td>International Law</td>
</tr>
<tr>
<td>POL SCI 330</td>
<td>The Politics of International Economic Relations</td>
</tr>
<tr>
<td>POL SCI 337</td>
<td>International Organization and the United Nations</td>
</tr>
<tr>
<td>POL SCI 338</td>
<td>Seminar in International Relations:</td>
</tr>
<tr>
<td>POL SCI 339</td>
<td>European Integration</td>
</tr>
<tr>
<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
</tr>
<tr>
<td>POL SCI 343</td>
<td>Asian International Relations</td>
</tr>
<tr>
<td>POL SCI 346</td>
<td>U.S.-Latin American Relations</td>
</tr>
<tr>
<td>POL SCI 359</td>
<td>Problems of American Foreign Policy</td>
</tr>
<tr>
<td>POL SCI 365</td>
<td>Theories and Methods in International Politics</td>
</tr>
<tr>
<td>POL SCI 370</td>
<td>International Conflict</td>
</tr>
<tr>
<td>POL SCI 423</td>
<td>Conduct of American Foreign Affairs</td>
</tr>
</tbody>
</table>

Political Theory

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 255</td>
<td>Great Issues of Politics</td>
</tr>
<tr>
<td>POL SCI 281</td>
<td>Classics of Political Theory</td>
</tr>
<tr>
<td>POL SCI 361</td>
<td>History of International Political Thought</td>
</tr>
<tr>
<td>POL SCI 381</td>
<td>The Development of Western Political Thought</td>
</tr>
<tr>
<td>POL SCI 382</td>
<td>Modern Political Thought</td>
</tr>
<tr>
<td>POL SCI 384</td>
<td>The Philosophy of Law</td>
</tr>
<tr>
<td>POL SCI 385</td>
<td>American Political Thought</td>
</tr>
<tr>
<td>POL SCI 386</td>
<td>Contemporary Political Theory</td>
</tr>
<tr>
<td>POL SCI 389</td>
<td>Politics and Philosophy:</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 312</td>
<td>The Politics of Authoritarian Regimes</td>
</tr>
<tr>
<td>POL SCI 314</td>
<td>Chinese Politics and Foreign Policy</td>
</tr>
<tr>
<td>POL SCI 325</td>
<td>Latin American Politics</td>
</tr>
<tr>
<td>POL SCI 326</td>
<td>Brazilian Politics and Society</td>
</tr>
<tr>
<td>POL SCI 338</td>
<td>Seminar in International Relations:</td>
</tr>
<tr>
<td>POL SCI 346</td>
<td>U.S.-Latin American Relations</td>
</tr>
<tr>
<td>POL SCI 361</td>
<td>History of International Political Thought</td>
</tr>
<tr>
<td>POL SCI 368</td>
<td>Gender and Politics in Developing Nations</td>
</tr>
<tr>
<td>POL SCI 408</td>
<td>The American Presidency</td>
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<td>POL SCI 415</td>
<td>The Politics of Race, Ethnicity and Immigration</td>
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<td>The Supreme Court</td>
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<td>POL SCI 425</td>
<td>Women in Politics</td>
</tr>
<tr>
<td>POL SCI 464</td>
<td>Sex, Gender, and the Law</td>
</tr>
<tr>
<td>POL SCI 467</td>
<td>Elections and Voting Behavior</td>
</tr>
</tbody>
</table>

Electives

Select 9 credits 9

Total Credits 30

1 Satisfies the L&S requirement for a research experience in the major, should be taken in the last year of study.

Course of Study: Law Studies Option

Students may emphasize the study of law within the major by completing, in conjunction with or in addition to all of the requirements outlined above, the courses listed below as part of the 30 credits required for the major.

**Political Areas**
- The following meets the American politics requirement: POL SCI 250, POL SCI 411, POL SCI 412, POL SCI 419, POL SCI 452, or POL SCI 464
- The following qualifies as political theory: POL SCI 384/PHILOS 384
- The following is an international politics course: POL SCI 316

**Law Studies Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required</strong></td>
<td></td>
</tr>
<tr>
<td>POL SCI 250</td>
<td>Law and Society</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 412</td>
<td>Constitutional Law: Civil Rights and Liberties</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 316</td>
<td>International Law</td>
</tr>
<tr>
<td>POL SCI 384/PHILOS 384</td>
<td>The Philosophy of Law</td>
</tr>
<tr>
<td>POL SCI 416</td>
<td>Judicial Politics</td>
</tr>
<tr>
<td>POL SCI 417</td>
<td>The Supreme Court</td>
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</tr>
<tr>
<td>POL SCI 452</td>
<td>Administrative Law</td>
</tr>
<tr>
<td>POL SCI 464</td>
<td>Sex, Gender, and the Law</td>
</tr>
</tbody>
</table>
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Professor Ivan Ascher, ascher@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/political-science/undergraduate/

Political Science, MA

The Department of Political Science offers graduate programs of study in political science with concentrations in five fields: American politics; comparative politics; international relations; political theory; and public administration and public policy.

The master's program is designed to provide students with a basic grounding in the scope and methodology of the discipline, while at the same time allowing maximum flexibility in developing a program of study that will meet students' career objectives. It is recommended that students preparing themselves for PhD work emphasize empirical theory, quantitative skills and strategies and techniques of conducting research. Students may select coursework to help them prepare for such career fields as governmental service, public and private education, community service, and private industry. In developing an appropriate and coherent program of study, each graduate student works closely with the major professor and committee of advisors.

The Department accommodates the master's student who attends part time by scheduling sufficient graduate-level courses in the late afternoons and evenings to enable the student to earn a master's degree through part-time attendance.
In the PhD program the departmental emphasis is on conceptual and quantitative work. The Department requires that the student be broadly trained and accordingly encourages each student to take advantage of offerings in related disciplines to strengthen expertise in political change. The graduate of the program is qualified for a career in university teaching, in government service or in the private sector where the analytical skills and knowledge of the social scientist are required. Graduate degrees are conferred on the basis of a level of achievement which is acquired by independent reading and research as well as by taking courses. They are never conferred solely on the basis of prescribed courses and residency requirements.

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major or substantial work in the field of political science.
2. Undergraduate grade point average of at least 3.0 (4.0 scale).
3. Three letters of recommendation from persons familiar with applicant’s scholastic ability and achievements.
4. Submission of Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) scores. Applications will not be considered until scores are received.

**Major Professor as Advisor**
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The incoming student is advised by the chair of the departmental Graduate Committee; as the student develops specialized interests within the discipline, the student selects a major professor from within that area of specialization.

**Credits and Courses**
Minimum degree requirement is 30 graduate credits, all of which must be taken at the 700 level or above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 700</td>
<td>Core Courses on scope and method of political inquiry</td>
<td>9</td>
</tr>
<tr>
<td>POL SCI 701</td>
<td>Scope and Methods of Political Science</td>
<td></td>
</tr>
<tr>
<td>POL SCI 702</td>
<td>Techniques of Political Science Research</td>
<td></td>
</tr>
<tr>
<td>POL SCI 702</td>
<td>Advanced Techniques of Political Science Research</td>
<td></td>
</tr>
<tr>
<td>Other POL SCI courses</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Up to 6 credits in related field</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

**Master’s Paper**
A formal thesis is not required. However, each student shall prepare and defend orally a paper that demonstrates conceptual ability and research competence in some recognized area (sub-field) of political science.

It is expected that the master’s paper will be prepared in a scholarly fashion, normally conforming to the format characteristic of journal articles published in the chosen area of study. A statement setting forth additional guidelines and criteria of evaluation will be made available.

For full-time students it is expected that the master’s paper will be defended prior to the completion of four semesters (two years) of graduate work. Consequently, the Department encourages students to choose paper topics for graduate seminars that may serve as the basis for the master’s paper. Postponement of the oral defense of the master’s paper beyond four semesters requires the approval of the Graduate Committee.

**Comprehensive Examination**
An oral defense of the master’s paper is required. Master’s papers will be defended before a three-person committee composed of one of the student’s advisors and two other faculty members selected by the chair of the Department in consultation with the student and the advisor.

The committee will be selected at least one full semester prior to anticipated submission of the master’s paper. The student must obtain committee approval of the research topic and methodology immediately following the selection of the committee.

A student must enroll for at least 3 credit hours of POL SCI 990 for final preparation of the paper.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.

**Political Science, Minor**
Political science is the study of governments, political processes, public policies and political behavior by groups or individuals and is an ideal major for students with a passion for current events.

At UWM, students take coursework from four broad areas of political science in order to obtain a well-rounded education in the field: American politics, international relations, comparative politics, and political theory. Along with exploring these substantive areas, students strengthen their research, writing, and critical thinking skills. With this background, students leave UWM ready to enter graduate school or the world of work in government, international organizations, campaigns, business, consulting, nonprofits, and many other industries. This broad the minor is available entirely online, or students can mix-and-match and take a some online and some traditional classes.

Many students find that a degree in Political Science aligns well with their interest in law and their plans to attend law school after college. Students planning for law school also often participate in our law sports programs such as intercollegiate moot court and intercollegiate mock trial.

**Requirements**
Minors are required to complete a minimum of 18 credits in political science, of which at least 9 must be in upper-division courses (numbered 300 or above) taken at UWM. Minors must complete courses in at least two of the following four areas: American politics, comparative politics, international politics, and political theory. Students must attain a 2.500 GPA in all political science courses, including any transfer work, and a 2.500 GPA in all political science courses taken at UWM.
Contact Information
Current Students contact Associate Professor Ivan Ascher, ascher@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/political-science/undergraduate/

Political Science, PhD

The Department of Political Science offers graduate programs of study in political science with concentrations in five fields: American politics; comparative politics; international relations; political theory; and public administration and public policy.

The master's program is designed to provide students with a basic grounding in the scope and methodology of the discipline, while at the same time allowing maximum flexibility in developing a program of study that will meet students' career objectives. It is recommended that students preparing themselves for PhD work emphasize empirical theory, quantitative skills and strategies and techniques of conducting research. Students may select coursework to help them prepare for such career fields as governmental service, public and private education, community service, and private industry. In developing an appropriate and coherent program of study, each graduate student works closely with the major professor and committee of advisors.

The Department accommodates the master's student who attends part time by scheduling sufficient graduate-level courses in the late afternoons and evenings to enable the student to earn a master's degree through part-time attendance.

In the PhD program the departmental emphasis is on conceptual and quantitative work. The Department requires that the student be broadly trained and accordingly encourages each student to take advantage of offerings in related disciplines to strengthen expertise in political change. The graduate of the program is qualified for a career in university teaching, in government service or in the private sector where the analytical skills and knowledge of the social scientist are required. Graduate degrees are conferred on the basis of a level of achievement which is acquired by independent reading and research as well as by taking courses. They are never conferred solely on the basis of prescribed courses and residency requirements.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these departmental requirements to be considered for admission to the program:

1. Master's degree in political science.
2. Evidence of a high standard of achievement in graduate work at the master's level.
3. Submission of Graduate Record Examination scores, except for applicants receiving a MA degree from UWM.

All applicants for admission to the PhD program will be evaluated on the basis of their prior academic record, scores on the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre), and three letters of recommendation.

Major Professor as Advisor
The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The incoming student is advised by the chair of the departmental Graduate Committee; as that student develops specialized interests within the discipline, the student selects a major professor from within that area of specialization.

Areas of Concentration
In consultation with the major professor students plan a program of studies through which a high level of competence is gained in two substantive fields (hereafter referred to as “major” or “prelim” fields). The department offers five fields of study:

- American Politics
- Comparative Politics
- International Relations
- Political Theory
- Public Administration and Public Policy

Competence in these fields is demonstrated by a written and oral preliminary examination. In addition to the fields listed above, students may petition the graduate committee to be examined in an alternative field. This must be a coherent field that is not covered by one of the existing prelim areas.

Credits and Courses
Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, 27 of which must be earned in residence at UWM at the doctoral level.

Distribution Requirement
To ensure broad exposure to the discipline, students must take a minimum of three courses outside of their prelim fields, at least two of which must be in a single field. Courses used to satisfy this requirement must be taken from the departmental offerings in the five substantive fields described above. Courses that bridge two or more fields of study cannot be used to satisfy this requirement if one of those fields falls within a student's prelim areas.

All courses taken to satisfy the distribution requirement must be political science courses numbered 700 or above.

Core Research Requirements
Attainment of the PhD denotes a high level of competence in research skills relevant to the discipline of political science. Thus, all students must complete the core departmental research seminars. Since skills learned in these courses are important elements in dealing successfully with subject matter presented in other seminars, students should enroll in these seminars immediately upon entering the graduate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 700</td>
<td>Scope and Methods of Political Science</td>
<td>12</td>
</tr>
</tbody>
</table>
Dissertation Defense
The candidate must, as a final step toward the degree, pass an oral examination in defense of the dissertation. The candidate who does not successfully defend a thesis within five years of admission to candidacy may be required to take another comprehensive preliminary examination and be readmitted to candidacy.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 701</td>
<td>Techniques of Political Science Research</td>
<td></td>
</tr>
<tr>
<td>POL SCI 702</td>
<td>Advanced Techniques of Political Science Research</td>
<td></td>
</tr>
<tr>
<td>POL SCI 935</td>
<td>Seminar in Advanced Political Science Methodology</td>
<td></td>
</tr>
</tbody>
</table>

Courses in two prelim fields 32
Distribution Requirement 9
Minimum three courses outside prelim fields (At least two in a single field)

Total Credits 54-56

1 Students using a course from outside the Department of Political Science to satisfy this requirement may enroll on a "Credit/No Credit" basis, where the grade of "Credit" demonstrates satisfactory completion of the requirement. Upon successful petition to the departmental Graduate Committee, a student may gain exemption from this requirement, based on coursework completed in the five years prior to entering the graduate program. Students who receive this exemption must still complete at least 27 credits in residence. Credits earned to meet the research requirement may count toward the 54 credits of work required for the PhD if they carry graduate credit and are taken for a grade.

In some cases, competence in foreign language skills is necessary for significant disciplinary research. Students may fulfill the research requirements beyond the above seminars through demonstration of a reading knowledge of one foreign language. Competence is established through examination, by an appropriate UWM language department. The student must perform at a level equivalent to six semesters of college-level work in the language.

Evaluation of Student Progress
The Department annually evaluates the progress of each student, in order to identify areas of strength and weakness as an aid to the student and the student's major professor in planning the program of study. This evaluation is also used to determine whether or not the student should be encouraged to pursue further graduate work.

Residence
The student must meet minimum Graduate School residence requirements.

Doctoral Preliminary Examination
The student must pass a doctoral written and oral preliminary examination covering both of his or her fields of study. The preliminary exam is taken during the semester following the completion of coursework.

Dissertation
The candidate, working under the supervision of the major professor and the candidate's dissertation committee, must write an acceptable dissertation. A dissertation prospectus must be written during the last semester of coursework and will be defended at the end of the following semester as part of the preliminary examination. Guidelines for preparation of the dissertation are available from the Graduate School.
PRE-PROFESSIONAL PROGRAMS

Pre-Professional Programs refers to any program that prepares students for professional graduate school such as a medical school, law school, or dental school.

Specialized advisors are available for each of the programs listed on the Programs tab (p. 1694) of this page. These advisors help students with course planning and other advice related to the elements needed to be a successful applicant to these competitive graduate programs. Depending on the graduate program, students will need to dedicate time and effort during college to obtain the necessary hands-on experience through volunteer work, internships, or part-time jobs. Early planning is essential for anyone who is considering a graduate professional school, and it is advised that students meet with the pre-professional advisor beginning in freshman year.

Programs

- Other Pre-Professional Health Study (p. 1694)
- Pre-Chiropractic (p. 1694)
- Pre-Dentistry (p. 1695)
- Pre-Forestry (Wildlife Management) (p. 1696)
- Pre-Law (p. 1696)
- Pre-Medicine (p. 1697)
- Pre-Optometry (p. 1698)
- Pre-Pharmacy (p. 1699)
- Pre-Physician Assistant (p. 1700)
- Pre-Podiatry (p. 1700)
- Pre-Veterinary Medicine (p. 1701)

Other Pre-Professional Health Study

Students interested in chiropractic medicine, optometry, physician assistant, and podiatry careers can fulfill the admission requirements of these professional programs in the College of Letters and Science. Information concerning these requirements and the admission tests for the professional schools is available in the Student Academic Services office. Call (414) 229-4654 to schedule an appointment with the appropriate advisor.

Pre-Chiropractic

The U.S. Bureau of Labor Statistics projects an above average increase in employment opportunities for chiropractors. As alternative medicine becomes more acceptable and the population ages, it is expected that the profession will grow by 28 percent from 2010 to 2020. Students can expect to spend three-and-a-half years in chiropractic school after the completion of four years of college.

Chiropractors diagnose and treat patients with health problems related to the body’s muscular, nervous, and skeletal system, particularly the spine. They view their patients as an integrated being and do not use drugs or surgery. The chiropractic theory states that there are many factors that affect our health, including heredity, type of exercise, environmental surroundings, dietary habits and rest.

Common tasks for a chiropractor include patient examination, analysis of posture and spine position, spinal and joint adjustments, application of heat and ice treatments, and patient lifestyle counseling. Some chiropractors use acupuncture, massage therapy, and ultrasound if they have received such training.

Please review the Pre-Chiropractic Fact Sheet (http://uwm.edu/letters-science/programs?discipline=Pre-Chiropractic) for information about suggested undergraduate courses to prepare for chiropractic school, career outlook for chiropractors, and options for your major. Pre-Chiropractic is not a major, and students must still choose a major. Since most of the pre-requisites necessary for application to Chiropractic school are in the sciences, many students choose a science major, though it is not required. Our specialized pre-chiropractic advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to Chiropractic school. A significant number of volunteer or work hours is often a requirement for application to Chiropractic school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

UWM partners closely with three chiropractic colleges: Palmer College of Chiropractic in Davenport, Iowa; Cleveland Chiropractic College in Overland Park, Kansas; and Northwestern Health Sciences University in Bloomington, Minnesota. UWM students who meet certain academic standards may qualify for guaranteed admission at these institutions. Students are encouraged to work closely with the pre-chiropractic advisor in order to plan early for this transition and to understand the specific requirements of these schools. There are no chiropractic graduate programs in the State of Wisconsin.

A suggested timeline is also available from the advisor to help you plan preparatory activities throughout your four years in college.

Requirements

Entrance to a chiropractic program is very competitive. Although specific admission requirements may vary among programs, the following minimum standards generally apply:

- 90 completed undergraduate credits
- Overall GPA of 3.00 or higher
- 30+ credits at the 300+ level
- 24 credits in the natural sciences, half with lab work

Other common course requirements include (but are not limited to) the following: anatomy and physiology, cell biology, biochemistry, math statistics, nutrition, kinesiology, genetics, psychology, microbiology, immunology, and toxicology. Due to the variance in admission requirements, it is strongly recommended that students consult with the pre-chiropractic advisor every semester.

Recommended coursework includes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150 &amp; BIO SCI 152</td>
<td>Foundations of Biological Sciences I and Foundations of Biological Sciences II</td>
<td></td>
</tr>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td></td>
</tr>
</tbody>
</table>
One year (two semesters) organic chemistry with lab: 8
CHEM 343 Organic Chemistry
CHEM 344 Organic Chemistry Laboratory
CHEM 345 Organic Chemistry

One year (two semesters) physics with lab: 10
Option 1:
PHYSICS 120 & PHYSICS 121 General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)
PHYSICS 122 & PHYSICS 123 General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)

Option 2:
PHYSICS 209 & PHYSICS 214 Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)
PHYSICS 210 & PHYSICS 215 Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)

Other common course requirements include (but are not limited to) the following: anatomy and physiology, cell biology, biochemistry, math statistics, nutrition, kinesiology, genetics, psychology, microbiology, immunology, and toxicology.

Due to the variance in admission requirements, it is strongly recommended that students consult with the pre-chiropractic advisor every semester.

**Contact Information**

Current Students contact the Pre-Chiropractic Advisor Dana Northrup,
northrup@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

**Pre-Dentistry**

The U.S. Bureau of Labor Statistics projects faster than average growth in dentistry, particularly as more links are identified between oral health and overall health. Students can expect to spend four years in dental school after the completion of four years of college.

If you are considering dental school, UWM will provide you with a solid foundation to help you reach your goal. There are 64 dental schools in the United States, only one of which is in Wisconsin at Marquette University. The application process is competitive so it is important that pre-dental students begin careful planning of their academic career during the freshman year. Requirements vary among dental schools, making early planning in consultation with a pre-dental advisor vital.

Dental schools require a minimum of 90 completed college credits. It is possible, though highly rare, to enter dental school without earning a bachelor’s degree. The vast majority of students complete their bachelor’s degree before proceeding to dental school.

It is recommended that students obtain some hand-on exposure to the dental profession prior to dental school, either through volunteer or internship opportunities, or paid work at a dental practice or community dental clinic.

Please review the Pre-Dental Fact Sheet (http://uwm.edu/letters-science/programs?discipline=Pre-Dental) for information about suggested undergraduate courses to prepare for dental school, options for your major, and the career outlook for dentists. Pre-Dental is not a major, and students must still choose a major. Since most of the prerequisites necessary for application to dental school are in the sciences, many students choose a science major, though it is not required. Our specialized pre-dental advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to dental school. A significant number of volunteer or work hours is often a requirement for application to dental school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

A suggested timeline is also available from the advisor to help you plan preparatory activities throughout your four years in college.

**Requirements**

Most schools of dentistry require a minimum of three years of undergraduate work, however, it is becoming less common for students to leave college without finishing their bachelor’s degree.

The 90 credits required for admission to most schools of dentistry include the following courses:

- 1 year of English;
- 2-2.5 years of chemistry, including inorganic chemistry, organic chemistry, and biochemistry;
- 1 year of biology (more is advised); and
- 1 year of physics.

Most dental schools require mathematics at least through pre-calculus. All science courses must include laboratory work. In addition, students are advised to take elective credits to ensure a broad liberal arts education.

Students must achieve satisfactory scores on the Dental Admission Test (DAT) to be a competitive applicant for dental school. The Pre-Dental Advisor can provide information regarding the administration of this test.

**Science Courses That Satisfy Dental School Admission Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biological Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 383</td>
<td>General Microbiology</td>
<td></td>
</tr>
<tr>
<td><strong>Chemistry</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative</td>
<td>5</td>
</tr>
<tr>
<td>Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

**Physics**
Select one of the following options:  

**Option 1:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
<td></td>
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</tbody>
</table>

**Option 2:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td>Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 210 &amp; PHYSICS 215</td>
<td>Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)</td>
<td></td>
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</tbody>
</table>

**Option 3:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td>Physics I: Calculus-Based, Studio Format</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td>Physics II: Calculus-Based, Studio Format</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits:** 42-43

**Contact Information**

Current Students contact the Pre-Dental Advisor Jenny Hack, jlrhamer@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Pre-Dental

**Pre-Forestry (Wildlife Management)**

The University of Wisconsin-Milwaukee does not offer a degree in forestry or wildlife management. However, the subjects listed below correspond closely to the requirements of the first two years of forestry and wildlife management curricula in institutions offering such degree programs.

**Requirements**

Students are advised to confer with the Pre-Forestry Advisor no later than the second semester of their freshman year about the specific requirements of the natural resources institution to which they plan to transfer. This should enable them to plan a course of study for the sophomore year at UWM that will satisfy these specific requirements.

Since many schools require attendance at a camp during the summer following the sophomore year, students are advised to consult at an early date with the institution to which they plan to transfer.

Completion of CHEM 100 and MATH 105 (or appropriate placement scores) is the prerequisite for beginning the chemistry courses required for the Pre-Forestry program.

**Recommended Curriculum for the Pre-Forestry Program**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credits:** 42-43

**Electives**

Possible electives include the following courses (Contact the program coordinator for information on other elective courses):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 407</td>
<td>Plant Systematics and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 500</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 511</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>CES 471</td>
<td>Practicum in Natural Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td>3</td>
</tr>
<tr>
<td>or GEO SCI 401</td>
<td>General Soil Science</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Pre-Law**

Pre-law studies and a law degree are flexible programs. While many individuals take a traditional path and become practicing attorneys, many others use their legal training to work in business or other professions. To become a licensed attorney, three years of law school is required beyond college leading to the Juris Doctor (JD) degree.

Preparation for law school is a continuous process. It involves planning an undergraduate program that develops the skills necessary for the successful study of law; learning about the law profession and career options; and participating in activities (extracurricular, volunteer, internships, related employment) that enhance and build on classroom learning.
Skills deemed most essential by law schools are written and verbal communication abilities, an organized and logical thought process, analytical reasoning, research, and strong habits of thoroughness, tenacity, and intellectual curiosity. There is no specific major or set of courses required of pre-law students. Students are advised to choose a major that features the qualities that law schools are seeking. Common majors for students interested in going on to law school are political science, philosophy, history, and English, but a student from any major can go on to law school.

Two factors play primary roles in determining admission to law schools:

- academic performance as measured by the grade point average, and
- score on the LSAT

The quality and rigor of the undergraduate program also will be considered. Minority group students are encouraged to see the pre-law advisor about making application to the Council on Legal Education Opportunity (CLEO) summer institutes.

Please review the Pre-Law Fact Sheet (http://uwm.edu/letters-science/programs?discipline=Pre-Law) for information about suggested experiential opportunities available to UWM students, career outlook for lawyers, and options for your major.

**Contact Information**

Current Students contact the Pre-Law Advisor Gwyn Wallander, gwyn@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Pre-Law

**Pre-Medicine**

The U.S. Bureau of Labor Statistics projects shortages across health care professions, including physicians. Some specialties, including primary care, will face severe shortages in the next five to twenty years.

To practice medicine, further education and training are required, ranging from 4 to 8 years of additional schooling and training after college.

If you are considering medical school after college, UWM will provide you with an excellent foundation to help you reach your goal. Admission to medical school is a highly competitive process, and students must demonstrate very strong academic performance as well as provide evidence that they have engaged in health-related work experiences to meet the rigorous admission standards of medical school. UWM graduates have consistently been admitted to medical schools at a rate equal to or greater than the national average; many UWM Pre-Medical students have gone on to attend top-ranked medical schools and have built promising careers in different medical specialties.

Medical schools do no require any specific major. What they do expect, however, is that students will have taken the necessary preparatory science classes to prepare for the demands of medical school. Because of the number of biology and chemistry classes that need to be taken, most students choose to major in biology, chemistry, or biochemistry, but this is not a requirement. As long as a student takes the required coursework, he/she can major in any subject area. The Pre-Medical Fact Sheet (http://uwm.edu/letters-science/programs?discipline=Pre-Med) outlines the courses that medical school expects students to take during college.

Many individuals feel a calling to the medical profession after they have graduated and been working in another profession. Individuals in this situation who did not major in a science field while in college or who have low grades in previous science education will maximize their opportunity to become an admissible medical school candidate by re-taking science courses or by returning to school for a full major in a related-science.

A significant number of volunteer or work hours is also often a requirement for application to medical school so it is important to work with the Pre-Medical advisor beginning in freshman year or upon entry to the certificate program in order to plan all needed activities into your college career.

**Requirements**

The application process for medical school is highly competitive. Students are advised to work closely with the pre-med advisor to ensure they are able to present the strongest possible application packet for medical school with exceptional grades, standardized test scores, and experiential learning.

Nearly all medical schools require that applicants take the Medical College Admission Test (MCAT). Pre-Medical students normally should arrange to take this test at the end of their junior year. The Pre-Medical advisor can provide information regarding the administration of this test.

Most medical schools consider the following as minimal preparation for admission:

- One year of English;
- mathematics at least through pre-calculus;
- Two to two-and-a-half years of chemistry, including inorganic chemistry, organic chemistry, and biochemistry;
- One year of biology (more is advised); and
- One year of physics.

For most medical schools, science courses must include laboratory work.

Effective 2015, the MCAT added a social/behavioral science component and additional chemistry. To be well prepared for the MCAT, students are advised to complete PSYCH 101, SOCIOL 101, and PH 101 (as well as other courses selected in consultation with the premed advisor) and CHEM 501. Other classes, such as Communication, are more frequently being strongly recommended or required by various medical schools.

Some medical schools specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, Pre-Medical students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly. A list of all medical college admission requirements is located in the College advising office.

**Science Courses that Satisfy Medical School Admission Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>One advanced course in Biological Sciences with lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>
Math (required at the Medical College of Wisconsin)  
Select one of the following options:  
Option 1:  
<table>
<thead>
<tr>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td></td>
</tr>
<tr>
<td>General Physics I (Non-Calculus Treatment)</td>
<td></td>
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<tr>
<td>and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td></td>
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<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td></td>
</tr>
<tr>
<td>General Physics II (Non-Calculus Treatment)</td>
<td></td>
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<tr>
<td>and General Physics Laboratory II (Non-Calculus Treatment)</td>
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</table>

Option 2:  
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>PHYSICS 209 &amp; PHYSICS 214</td>
<td></td>
</tr>
<tr>
<td>Physics I (Calculus Treatment)</td>
<td></td>
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<tr>
<td>and Lab Physics I (Calculus Treatment)</td>
<td></td>
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<tr>
<td>PHYSICS 210 &amp; PHYSICS 215</td>
<td></td>
</tr>
<tr>
<td>Physics II (Calculus Treatment)</td>
<td></td>
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<tr>
<td>and Lab Physics II (Calculus Treatment)</td>
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</tbody>
</table>

Option 3:  
<table>
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<tr>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHYSICS 219</td>
<td></td>
</tr>
<tr>
<td>Physics I: Calculus-Based, Studio Format</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 220</td>
<td></td>
</tr>
<tr>
<td>Physics II: Calculus-Based, Studio Format</td>
<td></td>
</tr>
<tr>
<td>Statistics: Any statistics course</td>
<td></td>
</tr>
<tr>
<td>(required at UW-Madison Medical School)</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td>50-51</td>
</tr>
</tbody>
</table>

Although the courses listed above are mandatory for admission to almost all American medical schools, the rest of the program can be whatever the student wishes. Students are not required to major in biology, chemistry, or biochemistry in order to gain admission to medical school, though many choose to do so.

Contact Information

Current Students contact the Pre-Med Advisor Patty Cobb, pacobb@uwm.edu  
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

Pre-Optometry

Employment of optometrists is expected to grow over the next decade as the population ages, but it is still a small and competitive profession. Optometry school requires four years of additional schooling after college.

Undergraduate preparation for the study of optometry requires a strong foundation in science and mathematics. UWM offers all of the prerequisites needed to apply to one of the 19 accredited optometry programs in the United States. There are no optometry programs in Wisconsin; the closest one is in Chicago. Although it is possible to enter an optometry program after completing the necessary science and math courses but before earning the bachelor's degree, it is a highly-rare situation. The majority of students accepted into optometry programs have completed their bachelor's degree.

Please review the Pre-Optometry Fact Sheet (http://uwm.edu/letters-science/programs?discipline=Pre-Optometry) for information about suggested undergraduate courses to prepare for optometry school, experiential opportunities available to UWM students, career outlook for optometrists, and options for your major. Pre-Optometry is not a major, and students must still choose a major. Since most of the prerequisites necessary for application to optometry school are in the sciences, many students choose a science major, though it is not required. Our specialized pre-optometry advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to optometry school. A significant number of volunteer or work hours is often a requirement for application to optometry school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

Requirements

Entrance to an optometry program is very competitive. Applicants must take the Optometry Admission Test (OAT). The OAT is a standardized examination designed to measure general academic ability and comprehension of scientific information. At least one year of college education, which should include courses in biology, general chemistry, organic chemistry, and physics, is required prior to taking the OAT. Most students, however, elect to complete two or more years of college prior to taking the exam in order to be better prepared.

Due to the variance in admission requirements, it is recommended that students consult with the Pre-Optometry Advisor every semester.

Although specific admission requirements may vary among programs, recommended coursework includes:

<table>
<thead>
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<th>Credits</th>
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<tbody>
<tr>
<td>BIO SCI 150 &amp; BIO SCI 152</td>
<td>Foundations of Biological Sciences I and Foundations of Biological Sciences II</td>
<td>8</td>
</tr>
<tr>
<td>BIO SCI 202 &amp; BIO SCI 203</td>
<td>Anatomy and Physiology I and Anatomy and Physiology II</td>
<td>8</td>
</tr>
<tr>
<td>Select a Microbiology course</td>
<td></td>
<td></td>
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<tr>
<td>Select a Biochemistry course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 102 &amp; CHEM 104</td>
<td>General Chemistry and General Chemistry and Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
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<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following options:</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 120 &amp; PHYSICS 121</td>
<td>General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 122 &amp; PHYSICS 123</td>
<td>General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)</td>
<td></td>
</tr>
</tbody>
</table>
We recommend students begin meeting with this advisor as soon as college in order to be a competitive applicant to pharmacy school. To ensure they understand all of the milestones that must be met in required. Our specialized Pre-Pharmacy advisor works with students the sciences, many students choose a science major, though it is not the prerequisites necessary for application to pharmacy school are in is not a major, and students must still choose a major. Since most of the career outlook for pharmacists, and options for your major. Pre-Pharmacy suggested undergraduate courses to prepare for pharmacy school, science/programs?discipline=Pre-Pharmacy)

Please review the Pre-Pharmacy Fact Sheet (http://uwm.edu/letters-science/programs?discipline=Pre-Optometry) for information about suggested undergraduate courses to prepare for pharmacy school, career outlook for pharmacists, and options for your major. Pre-Pharmacy is not a major, and students must still choose a major. Since most of the prerequisites necessary for application to pharmacy school are in the sciences, many students choose a science major, though it is not required. Our specialized Pre-Pharmacy advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to pharmacy school. We recommend students begin meeting with this advisor as soon as freshman year in order to plan all needed activities into your college career.

Requirements

Entrance to pharmacy school is very competitive and requires strong grades and satisfactory scores on the Pharmacy College Admission Test (PCAT). Due to the variance in admission requirements, it is very important that students consult with the pre-pharmacy advisor every semester.

Although specific admission requirements may vary among schools, below are some common course requirements among many pharmacy schools:

Pre-Pharmacy

Scientific advances, an aging population, and expansion of insurance coverage for more Americans all will contribute to growth in the pharmacy industry. Employment of pharmacists is expected to increase by 25 percent from 2010 to 2020, faster than the average for all occupations.

The Doctor of Pharmacy degree (PharmD) is the professional degree needed to enter the pharmaceutical field. Most PharmD programs take four years to complete after completion of the minimum prerequisites or an undergraduate degree. Entrance to pharmacy school is competitive and there are more applicants than there are open seats. Different schools also have different prerequisites; it is very important that students consult with the Pre-Pharmacy advisor every semester beginning freshman year in addition to communicating with pharmacy schools they plan to apply to.

UWM offers all of the prerequisite coursework necessary for students to apply to professional pharmacy schools and colleges throughout the country. Although it is theoretically possible to complete the pre-pharmacy requirements in two years and proceed directly to pharmacy school, the current national average for completion of the pre-pharmacy coursework is three years. In addition, given the highly competitive nature of gaining admission to pharmacy school, students may present a stronger application if they complete four years of college and earn a Bachelor’s degree before going to pharmacy school.

Please review the Pre-Pharmacy Fact Sheet (http://uwm.edu/letters-science/programs?discipline=Pre-Pharmacy) for information about suggested undergraduate courses to prepare for pharmacy school, career outlook for pharmacists, and options for your major. Pre-Pharmacy is not a major, and students must still choose a major. Since most of the prerequisites necessary for application to pharmacy school are in the sciences, many students choose a science major, though it is not required. Our specialized Pre-Pharmacy advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to pharmacy school.

We recommend students begin meeting with this advisor as soon as
Pre-Physician Assistant

Physician assistants work under the supervision of a physician or surgeon to provide direct patient care. They may perform exams, order diagnostic tests, prescribe medication, make diagnoses, provide treatments and assist with surgery. Like physicians, depending on the specialty, evening, weekend, and on-call hours may be a job expectation.

UWM offers all of the prerequisite coursework necessary for application to physician assistant (PA) programs throughout the country. Although it is theoretically possible to enter a PA program after completing the necessary science and math courses but before earning the bachelor’s degree, it is a highly-rare situation and becoming even less common as more PA programs now require a bachelor’s degree. The graduate level schooling to become a PA takes two to three years after completion of four years of college.

Please review the Pre-Physician Assistant Fact Sheet (http://uwm.edu/letters-science/programs?discipline=Pre-Physician+Assistant) for information about suggested undergraduate courses to prepare for PA school, experiential opportunities available to UWM students, the career outlook for PAs, and options for your major. Pre-PA is not a major at UWM, and students must still choose a major. Since most of the prerequisites necessary for application to physician assistant programs are in the sciences, many students choose a science major, though it is not required. Our specialized pre-PA advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to a physician assistant program.

Requirements

Requirements for admission to PA programs vary widely. However, many PA programs consider the following as minimal preparation for admission:

- One year of English;
- Mathematics through pre-calculus and statistics;
- Two to three years of chemistry, including general, organic chemistry, and biochemistry; and
- Several biology courses (see below).

Physics is rarely required.

Many PA schools specify additional courses as part of the minimal preparation for admission. Therefore, pre-PA students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

Courses That Typically Satisfy PA School Admission Requirements

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
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<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 101</td>
<td>General Survey of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>or BIO SCI 383</td>
<td>General Microbiology</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
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<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
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<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>Math – one semester of pre-calculus or calculus</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Statistics – any statistics course</td>
<td>3</td>
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</tbody>
</table>

1 Some PA schools may have a three- to five-year expiration date on anatomy and physiology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.

2 Some PA schools may have a five-year expiration date on medical terminology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.

Although the courses listed above are often required for admission to almost all PA schools, the rest of the program can be whatever the student wishes. Students are not required to major in Biological Sciences or Chemistry in order to gain admission to PA school.

Contact Information

Current Students contact the Pre-Physician Assistant Advisor Dorrie Von Kerkvoorde, unertl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

Pre-Podiatry

The U.S. Bureau of Labor Statistics projects shortages across the health care professions, including podiatrists. The profession is expected to grow by 23% over the next ten years, much faster than the average for other professions and due in large part to the needs of an aging population.

Podiatrists, also known as doctors of podiatric medicine, diagnose and treat disorders, diseases, and injuries of the foot and lower leg to keep this part of the body working properly. Podiatrists may prescribe drugs, order physical therapy, set fractures and perform surgery as a routine part

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<tr>
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<tr>
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<tr>
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<td>4</td>
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<tr>
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</tr>
<tr>
<td>BIO SCI 101</td>
<td>General Survey of Microbiology</td>
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<tr>
<td>or BIO SCI 383</td>
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<tr>
<td>CHEM 102</td>
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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
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<td>CHEM 343</td>
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<td>Language of Medicine</td>
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<td>Statistics – any statistics course</td>
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</tr>
</tbody>
</table>

1 Some PA schools may have a three- to five-year expiration date on anatomy and physiology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.

2 Some PA schools may have a five-year expiration date on medical terminology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.

Although the courses listed above are often required for admission to almost all PA schools, the rest of the program can be whatever the student wishes. Students are not required to major in Biological Sciences or Chemistry in order to gain admission to PA school.

Contact Information

Current Students contact the Pre-Physician Assistant Advisor Dorrie Von Kerkvoorde, unertl@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/letters-science/programs?discipline=Pre-Physician+Assistant
of their practice. Most podiatrists are in general practice; some specialize in surgery, orthopedics, primary care or public health. Podiatry school takes approximately four years of additional study and training after four years of college. At the end, students earn the Doctor of Podiatric Medicine (DPM) degree.

There are only nine accredited schools of podiatry in the United States, and it is very competitive to get accepted for one of the very few open seats. Students should work with the Pre-Podiatry advisor starting in freshman year to ensure that they are completing the right milestones to make themselves an attractive applicant to podiatry school. It is important to understand which classes podiatry schools expect students to take during college and what types of work experience podiatry schools expect students to have before leaving college.

Read our Pre-Podiatry Fact Sheet ([link](http://uwm.edu/letters-science/programs?discipline=Pre-Podiatry)) to learn more about classes, extracurricular activities, and majors related to our Pre-Podiatry program. Pre-Podiatry is not a major, and students must still choose a major. Since most of the prerequisites necessary for application to podiatry school are in the sciences, many students choose a science major, though it is not required. Our Pre-Podiatry advisor works with students to ensure they understand all of the milestones that must be met at UWM in order to be a competitive applicant to podiatry school.

**Requirements**

UWM offers a special admission track to the Rosalind Franklin University of Medicine and Science Dr. William M. Scholl College of Podiatric Medicine ([link](https://www.rosalindfranklin.edu/academics/dr-william-m-scholl-college-of-podiatric-medicine)). Students who successfully complete admission requirements are offered early review and preferential admission to the Doctor of Podiatric Medicine (DPM) program. In some instances, students may enter the DPM program after only three years of undergraduate study and transfer their first year of the DPM program back to UWM to complete their Bachelor's degree. Students who elect to follow a more traditional four-year plan are still given preferential admissions status.

In addition to the suggested coursework below, it is recommended that students take a few additional upper-level social/behavioral science courses.

**Suggested Classes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I and Foundations of Biological Sciences II</td>
<td>8</td>
</tr>
<tr>
<td>BIO SCI 152 &amp; CHEM 102</td>
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<td>5</td>
</tr>
</tbody>
</table>

**Contact Information**

Current Students contact Pre-Podiatry Advisor Patty Cobb, pacobb@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

**Pre-Veterinary Medicine**

Employment of veterinarians is expected to grow 36 percent from 2010 to 2020, much faster than the average for all occupations, according to the U.S. Bureau of Labor Statistics. Job opportunities are particularly good in government, farm animal care, research, and in farm animal care. Veterinary education and training takes four to eight years after the completion of four years of college.

UWM offers all of the prerequisite coursework necessary for competitive application to schools of veterinary medicine. There are only 30 veterinary schools in the United States. The application process is extremely competitive so it is important that students interested in this career path begin careful planning of their academic career during the freshman year. Requirements vary significantly from one veterinary school to another, making early planning in consultation with a Pre-Veterinarian advisor all the more vital.

Please review the Pre-Veterinary Fact Sheet ([link](http://uwm.edu/letters-science/programs?discipline=Pre-Veterinary)) for information about suggested undergraduate courses to prepare for veterinary school, experiential opportunities available to UWM students, options for your major, and the career outlook for veterinarians. Pre-Veterinary Medicine is not a major at UWM, and students must still choose a major. Since most of the prerequisites necessary for application to veterinary school are in the sciences, many students choose a science major, though it is not required. Our Pre-Veterinary advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to medical school. A significant number of volunteer or work hours is often a requirement for application to veterinary school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

**Requirements**

The vast majority of students admitted to American schools of veterinary medicine hold a bachelor's degree. An especially well-prepared student occasionally is admitted at the end of the junior year, but pre-veterinary students should plan to complete the full bachelor's degree.

All American schools of veterinary medicine require that applicants take the Graduate Record Examination (GRE). Pre-veterinary students normally should arrange to take this test at the end of their junior year. The Pre-
Veterinary advisor can provide information regarding the administration of this test.

Some schools of veterinary medicine specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, pre-veterinary students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

### Required Coursework for Admission to Schools of Veterinary Medicine

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
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</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry $^1$</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory $^1$</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry $^1$</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment) $^2$</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 122</td>
<td>General Physics II (Non-Calculus Treatment) $^2$</td>
<td>4</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis (or any Statistics course)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 0-3

- ENGLISH 101 Introduction to College Writing
- ENGLISH 102 College Writing and Research
- Or appropriate score on placement exam $^3$

**Total Credits**: 44-47

1. Some veterinary schools will accept CHEM 341/CHEM 342 instead of CHEM 343/CHEM 344/CHEM 345.
2. Some veterinary schools may require a physics lab, e.g., PHYSICS 121 or PHYSICS 123.
3. Even if a student tests out of English, some veterinary schools require an additional writing course.

Although the courses listed above are mandatory for admission to almost all American schools of veterinary medicine, the rest of the program can be whatever the student wishes. Students are not required to major in biology in order to gain admission to vet school, although many choose to do so because the major aligns with their interests.

### Contact Information

Current Students should contact Pre-Veterinary Advisor Lori Fitzenberger, lorifitz@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
PSYCHOLOGY

Psychology is the science of behavior. Courses in psychology provide an understanding of the social and biological bases of behavior, proficiency in scientific methods and statistics, knowledge of the factors influencing behavior, insight into the applicability of psychological principles to everyday problems, and familiarity with many core areas of knowledge, including conditioning and learning, personality, social behavior, psychopathology and therapy, human development, health, stress and coping, gender, race and ethnicity, sensation and perception, language, memory, and individual differences.

Programs

- Psychology, BA (p. 1711)
- Psychology, BS (p. 1715)
- Psychology, Minor (p. 1718)
- Psychology, MS (p. 1719)
- Psychology, PhD (p. 1720)

Courses

Psychology Courses

PSYCH 101 Introduction to Psychology
3 cr. Undergraduate.
The scientific study of behavior.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

PSYCH 193 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016, Fall 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

PSYCH 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PSYCH 205 Personality
3 cr. Undergraduate.
Principles of personality; an overview of adaptive and maladaptive behavior patterns.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

PSYCH 210 Psychological Statistics
4 cr. Undergraduate.
Use of statistical techniques in Psychology. Lec & Lab.
Prerequisites: Psych 101(P); satisfaction of GER Quant Lit Part A req.
General Education Requirements: QLB
Current Offerings: http://uwm.edu/schedule

PSYCH 214 Introduction to Conditioning and Learning
3 cr. Undergraduate.
Introduction to principles and procedures of conditioning and learning.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PSYCH 230 Social Psychology: Psychological Perspectives
3 cr. Undergraduate.
Areas of social psychology such as aggression, attitudes, interpersonal attraction, and group processes examined from a psychological perspective.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

PSYCH 254 Physiological Psychology
3 cr. Undergraduate.
The physiological bases of behavior.
Prerequisites: Psych 101(P).
General Education Requirements: NS
Current Offerings: http://uwm.edu/schedule

PSYCH 260 Child Psychology
3 cr. Undergraduate.
The development of the child.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

PSYCH 290 Undergraduate Research: Lower Division
1-3 cr. Undergraduate.
Independent research under the supervision of a faculty member.
Prerequisites: fr & soph st only; Psych 101(P) and sponsorship by a faculty member.
Course Rules: May be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 292 Psychology Field Placement-Lower Division
3 cr. Undergraduate.
Prerequisites: Psych 101(P); cons instr & placement supervisor.
Course Rules: May be retaken for cr.
Current Offerings: http://uwm.edu/schedule
PSYCH 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: http://uwm.edu/schedule

PSYCH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PSYCH 319 Gay and Lesbian Psychology
3 cr. Undergraduate.
Psychological theory and research on sexual orientation.
Prerequisites: jr st; Psych 101(P).
Course Rules: Foundations course.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 320 Psychology of Women
3 cr. Undergraduate.
Psychological theory and research on how gender influences our thinking, feelings, and behavior.
Prerequisites: jr st; Psych 101(P).
Course Rules: Foundations course.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

PSYCH 325 Research Methods in Psychology
4 cr. Undergraduate.
Design and execution of psychological research. Collection, analysis, and reporting of data. Lec & Lab.
Prerequisites: 2.62 gpa in Psych 101(P) & 210(P); grade of C or better in English 102(P) or score at level 4 on EPT.
General Education Requirements: OWCB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 326 Graduate Research Methods in Psychology
1 cr. Undergraduate.
Introduction to advanced research methods. Graduate level course.
Prerequisites: Psych 325(P).
Course Rules: Systems course. Requires only grad & assoc dean approval.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 328 Perception
3 cr. Undergraduate.
Foundations course. May be retaken w/chg in topic to 9 cr max.
Course Rules: Systems Course. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 354 & Psych 355 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

PSYCH 333 Mental Health
3 cr. Undergraduate.
Psychological theory and research on psychotic, neurotic, and other behavioral abnormalities.
Prerequisites: jr st; Psych 101(P).
Course Rules: Systems course.
Current Offerings: http://uwm.edu/schedule

PSYCH 338 Research Methods II
3 cr. Undergraduate.
Advanced methods designed to prepare students for independent research. Lec & Lab.
Prerequisites: Psych 335(P).
Course Rules: Systems course. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Current Offerings: http://uwm.edu/schedule

PSYCH 354 Introduction to Neuroscience I: From Neuron to Brain
3 cr. Undergraduate.
Basic principles of cellular, molecular, and developmental neuroscience; structure/function of neurons and glia; chemical and electrical signaling; brain development, and neurological diseases.
Prerequisites: C or better in BioSci 315(P) or Psych 254(P).
Course Rules: Systems course. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 354 & Psych 355 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

PSYCH 355 Introduction to Neuroscience II: From Brain to Behavior
3 cr. Undergraduate.
Basic principles of neural systems and behavior; analysis of systems for sensation and perception, learning and memory, language, emotion, and motion.
Prerequisites: Bio Sci 152(P) & 315(C), or Psych 254(P).
Course Rules: Systems Course. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 355 & Psych 355 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

PSYCH 380 Honors Seminar:
3 cr. Undergraduate.
Selected topics in psychology.
Prerequisites: soph st; Honors 200(P); cons Honors College dir; Psych 101(P).
Course Rules: Foundations course. May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Last Taught: Spring 2013, Fall 2011, Fall 2010, Fall 2004.
Current Offerings: http://uwm.edu/schedule

PSYCH 407 Personality Theory
3 cr. Undergraduate.
Theories of personality. 2 hrs lec, 1 hr dis
Prerequisites: Psych 205(P).
Course Rules: Systems course.
Current Offerings: http://uwm.edu/schedule

PSYCH 412 Abnormal Psychology
3 cr. Undergraduate.
Psychology of abnormal behavior; the nature and social-biological origins of psychotic, neurotic, and other behavioral abnormalities.
Prerequisites: Psych 101(P).
Course Rules: Foundations and Systems course.
Current Offerings: http://uwm.edu/schedule

PSYCH 433 Neuropsychology
3 cr. Undergraduate.
Introduction to the theory, research literature and assessment of the cognitive and emotional aspects of brain function. Systems course.
Prerequisites: Psych 254(P) or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
COURSE NAME | DESCRIPTION | CREDIT HOURS | LEVEL | PREREQUISITES | LAST TAUGHT | CURRENT OFFERINGS
--- | --- | --- | --- | --- | --- | ---
PSYCH 454 | Psychopharmacology and Addiction | 3 cr. | Undergraduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Examination of mode of action, acute and chronic effects, and the neurobiological and psychological characteristics of psychoactive drugs with an emphasis on addiction.

**Prerequisites:** Psych 254(P) or cons instr.

**Course Rules:**
- Foundations course.

PSYCH 497 | Study Abroad | 1-12 cr. | Undergraduate/Graduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2017, Fall 2016, Summer 2015, Spring 2015.

PSYCH 499 | Ad Hoc | 1-6 cr. | Undergraduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 1989.

PSYCH 502 | Applied Behavior Analysis | 4 cr. | Undergraduate/Graduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Learning and motivation of human behavior in applied settings. Lab work in community agencies using operant methods, behavior modification, programmed instruction, AV systems. Lec, Lab.

**Prerequisites:** jr st, Psych 325(P).

**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.

PSYCH 503 | Perception | 3 cr. | Undergraduate/Graduate | | | Current Offerings: [link](http://uwm.edu/schedule)

The nature of perception and its relation to environmental and internal processes.

**Prerequisites:** jr st, 9 cr in psych.

**Course Rules:** Systems course.

**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.

PSYCH 505 | Cognitive Processes | 4 cr. | Undergraduate/Graduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Human information processing, emphasizing vision and language. Topics: pattern recognition; sensory-specific memory systems, short- and long-term; modern approaches to mental imagery and operations. Lec, lab.

**Prerequisites:** jr st, Psych 325(P).

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.

PSYCH 510 | Advanced Psychological Statistics | 3 cr. | Undergraduate/Graduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Topics include probability and sampling theory, correlational methods, and nonparametric techniques. Foundations course.

**Prerequisites:** jr st & Psych 210(P); or grad st.

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.

PSYCH 514 | Conditioning and Learning | 4 cr. | Undergraduate/Graduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Principles of conditioning and learning. Lec, lab.

**Prerequisites:** jr st; Psych 325(P).

**Course Rules:** Required special course fee assessed; announced in Schedule of Classes each semester.

**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.

PSYCH 540 | Clinical Psychology: Science and Practice | 3 cr. | Undergraduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Key concepts, findings, and their applications in the field of research and practice of clinical science.

**Prerequisites:** jr st.

**Course Rules:** Foundations course.

**Last Taught:** Spring 2018, UWinterI 2018, Fall 2017, UWinterI 2016.

PSYCH 550 | History of Psychology | 3 cr. | Undergraduate/Graduate | | | Current Offerings: [link](http://uwm.edu/schedule)

The important philosophical and scientific antecedents of contemporary psychology.

**Prerequisites:** jr st; 9 cr in psych.

**Course Rules:** Systems course.

**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.

PSYCH 551 | Learning and Motivation Theories | 3 cr. | Undergraduate/Graduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Contemporary psychological theories, with special emphasis on theories of learning.

**Prerequisites:** jr st; 9 cr in psych.

**Course Rules:** Systems course.

**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2011.

PSYCH 555 | Health Psychology | 3 cr. | Undergraduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Psychological contributions to physical health in areas such as changing health habits, stress and coping, pain, and chronic illness.

**Prerequisites:** Psych 254(P) or cons instr.

**Course Rules:** Systems course.

**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.

PSYCH 578 | Psychology of Race, Ethnicity, and Health | 3 cr. | Undergraduate/Graduate | | | Current Offerings: [link](http://uwm.edu/schedule)

Psychological theory and research on how health is related to race and ethnicity.

**Prerequisites:** jr st, Psych 101(P); or grad st.

**Course Rules:** Foundations course. No cr for students w/cr in Psych 611 w/similar topic.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.
PSYCH 610 Experimental Design
3 cr. Undergraduate/Graduate.
Design and analysis of single and multi-factor experiments; tests for trends; multiple comparisons. Foundations course.
Prerequisites: jr st & Psych 210(P); or grad st.
Current Offerings: http://uwm.edu/schedule

PSYCH 611 Current Topics:
3 cr. Undergraduate/Graduate.
Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.
Prerequisites: jr st.
Course Rules: Foundations course. May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PSYCH 620 Single-Subject Research Methods
3 cr. Undergraduate/Graduate.
A review of single-subject research methods.
Prerequisites: jr st & Psych 325(P), or grad st; or cons instr.
Course Rules: Foundations course.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

PSYCH 623 Perceptual Processes
4 cr. Undergraduate.
Experimental investigation of perception.
Prerequisites: jr st & Psych 325(P)
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

PSYCH 627 Cognitive Neuroscience
3 cr. Undergraduate.
How the brain enables the mind; broad introduction to cognitive neuroscience, with emphasis on a converging methods approach.
Prerequisites: jr st; Psych 210(P) & 254(P).
Course Rules: Systems course. Counts as repeat of Psych 611 w/same topic.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PSYCH 645 Hormones and Behavior
3 cr. Undergraduate.
Effects of hormones on behavior and brain function in various species.
Prerequisites: jr st, Psych 254(R).
Course Rules: Counts as repeat of Psych 611 with same topic.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 654 Advanced Physiological Psychology
4 cr. Undergraduate/Graduate.
Advanced topics in physiological psychology. Lec, lab.
Prerequisites: jr st; Psych 254(R) & 325(P).
Course Rules: Required special course fee assessed; announced in Schedule of Classes each sem.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 656 Psychophysiology
4 cr. Undergraduate.
Experimental investigation of physiological factors in human behavior.
Lec, lab.
Prerequisites: jr st, Psych 254(R) & 325(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 657 Neurobiology of Learning and Memory
3 cr. Undergraduate/Graduate.
Functional and structural alterations in nervous system underlying organism’s ability to learn/remember. Principles drawn from molecular and cellular neurobiology, neurophysiology, neuroanatomy, and behavioral neuroscience.
Prerequisites: jr st.
Course Rules: Systems course. Counts as repeat of Psych 611 w/same topic.
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 660 Experimental Child Psychology
4 cr. Undergraduate/Graduate.
Experimental investigation of child behavior and development. Lec, lab.
Prerequisites: jr st; Psych 260(R) & 325(P).
Current Offerings: http://uwm.edu/schedule

PSYCH 665 Experimental Social Psychology
4 cr. Undergraduate/Graduate.
Experimental investigation of social behavior. Lec, lab.
Prerequisites: jr st; Psych 230(R) & 325(P).
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 677 Experimental Social Psychology
4 cr. Undergraduate/Graduate.
Experimental investigation of social behavior. Lec, lab.
Prerequisites: jr st; Psych 230(R) & 325(P).
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 680 Psychology of Aging
3 cr. Undergraduate/Graduate.
Extension of principles of general psychology to the process of aging.
Prerequisites: jr st; Psych 325(P) or cons instr.
Course Rules: Systems course.
Current Offerings: http://uwm.edu/schedule

PSYCH 682 The Aging Brain
3 cr. Undergraduate.
Effects of aging process on brain function; resulting effects on psychological function.
Prerequisites: jr st; Psych 254(R).
Course Rules: Counts as repeat of Psych 611 with same topic.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

PSYCH 690 Undergraduate Research: Upper Division
1-3 cr. Undergraduate.
Independent research under the supervision of a faculty member.
Prerequisites: jr st; sponsorship by a faculty member.
Course Rules: May be retaken for cr.
Current Offerings: http://uwm.edu/schedule
PSYCH 692 Field Placement in Psychology
3 cr. Undergraduate.
Prerequisites: jr st; cons instr & placement supervisor.
Course Rules: May be retaken for cr.
Current Offerings: http://uwm.edu/schedule

PSYCH 697 Field or Research Placement in Psychology for Seniors
3 cr. Undergraduate.
Prerequisites: sr st; cons instr & if appropriate, placement supervisor.
Course Rules: Fulfills Capstone req.
Current Offerings: http://uwm.edu/schedule

PSYCH 698 Senior Thesis
3 cr. Undergraduate.
Completion of thesis under the supervision of faculty.
Prerequisites: sr st; 3.5 gpa in all Psych course work or cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PSYCH 699 Independent Study
1-3 cr. Undergraduate.
Advanced independent work under the supervision of a Psych faculty member. Students must submit study proposal to the prof with whom they wish to study. For additional information, consult supervising prof.
Prerequisites: jr st, 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PSYCH 702 Applied Behavior Analysis
3 cr. Graduate.
Use of learning principles and procedures to solve behavior problems. 3 hrs lec, 1 hr dis.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PSYCH 705 Information Processing
3 cr. Graduate.
Introduction to cognitive psychology from an information processing perspective. Core course in cognition for the cognition/perception area.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PSYCH 706 Psychology of Language
3 cr. Graduate.
An overview of the cognitive processes involved in language comprehension. An advanced course in cognition for the cognition/perception area.
Prerequisites: grad st; some background in linguistics or cognitive psychology. E.g. Psych 705(R).
Current Offerings: http://uwm.edu/schedule

PSYCH 710 Survey of Clinical Research Methods
3 cr. Graduate.
Various research methods in clinical psychology.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PSYCH 711 Current Topics in Psychology
1-4 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 712 Professional Ethics and Issues in Clinical Psychology
3 cr. Graduate.
Introduction to clinical practice and ethics.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

PSYCH 714 Conditioning and Learning
3 cr. Graduate.
Principles of classical conditioning and instrumental learning. 3 hr lec, 1 hr dis.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PSYCH 724 Proseminar in Behavior Analysis
3 cr. Graduate.
A review of conceptual, methodological, and professional issues associated with the science and application of behavior analysis.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PSYCH 725 Ethical and Professional Conduct for Behavior Analysts
3 cr. Graduate.
Ethical and professional issues pertaining to behavior analysts working in clinical, educational, academic, and other settings.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

PSYCH 727 Cognitive Neuroscience
3 cr. Graduate.
How the brain enables the mind; broad introduction to cognitive neuroscience, with emphasis on a converging methods approach.
Prerequisites: grad st.
Course Rules: Counts as repeat of 711 w/same topic.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PSYCH 730 Practicum in Behavior Analysis
3 cr. Graduate.
Hands-on experience providing behavior analysis services.
Prerequisites: grad st; cons instr & placement supervisor.
Course Rules: Retakable to 12 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
PSYCH 734 Introduction to Scientifically-Validated Treatments
1 cr. Graduate.
The use of psychological interventions for treating numerous psychological conditions.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

PSYCH 736 Functional Assessment and Intervention
3 cr. Graduate.
Methods for determining the variables of which behavior is a function and selecting function-based interventions.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

PSYCH 741 Foundations of Psychotherapy
3 cr. Graduate.
Introduction to psychotherapies: origins, orientations, procedures, and empirical support.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PSYCH 742 Empirically-Supported Interventions
3 cr. Graduate.
Research-supported therapy protocols for a variety of behavioral disorders; didactic instruction and role-play practice/feedback.
Prerequisites: grad st; some background in psychopathology & systems of psychotherapy recom.
Current Offerings: http://uwm.edu/schedule

PSYCH 745 Hormones and Behavior
3 cr. Graduate.
Effects of hormones on behavior and brain function in various species. Counts as repeat of Psych 711 with same topic.
Prerequisites: grad st.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

PSYCH 750 The History of Psychology
3 cr. Graduate.
Examination of the grounding of modern psychological theory and practice in the history of western culture. 3 hrs lec; 1 hr dis.
Prerequisites: grad st.
Course Rules: Not open to students with cr in Psych 550(ER).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 754 Proseminar in Biological Psychology
3 cr. Graduate.
Overview of current topics in neuroscience including neuropsychopharmacology, neuropsychology, psychophysiology, and behavioral medicine.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

PSYCH 756 Psychophysiology
3 cr. Graduate.
Experimental investigation of physiological factors in behavior. 2 hrs lec; 1 hr dis.
Prerequisites: grad st.
Course Rules: Not open to students with cr in Psych 656(ER).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 760 Experimental Child Psychology
3 cr. Graduate.
Investigation of experimental research relating to infant and child behavior. Lec, Lab, Dis.
Prerequisites: grad st.
Course Rules: No cr for students w/cr in Psych 660(ER).
Current Offerings: http://uwm.edu/schedule

PSYCH 762 Lifespan Developmental Psychology
3 cr. Graduate.
Survey of developmental theory from a life-span perspective, with an emphasis on historical roots of developmental psychology, contemporary integrated theoretical perspectives, and cross-cultural perspectives.
Prerequisites: grad st.
Last Taught: Spring 2013.
Current Offerings: http://uwm.edu/schedule

PSYCH 782 The Aging Brain
3 cr. Graduate.
Effects of aging process on brain function; resulting effects on psychological function. Counts as repeat of Psych 711 with same topic.
Prerequisites: grad st.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

PSYCH 790 Masters Research
1-6 cr. Graduate.
Independent research with a faculty member to fulfill the master's thesis requirement for incoming students with a master's degree without a thesis.
Prerequisites: grad st; cons advisory committee.
Course Rules: Retakable.
Current Offerings: http://uwm.edu/schedule

PSYCH 791 Project in Psychology
3 cr. Graduate.
Independent research with a faculty member to fulfill the master's thesis requirement for incoming students with a master's degree without a thesis.
Prerequisites: grad st; cons advisory committee.
Current Offerings: http://uwm.edu/schedule

PSYCH 799 Advanced Independent Study
1-6 cr. Graduate.
Prerequisites: grad st & sponsorship by a faculty member.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule
PSYCH 802 First-Year Clinical Psychology Practicum
3 cr. Graduate.
Administration of psychological tests to clinic clients; interviewing, contact with referred sources, feedback of test results to clients, written reports and co-therapy with experienced therapist.
Prerequisites: grad st; clinical training prog; cons instr.
Course Rules: Retakable to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 811 Community Placement in Clinical Psychology
3 cr. Graduate.
Specific agency and additional prerequisites announced in the schedule of classes each time the course is offered.
Prerequisites: grad st; cons instr & placement supervisor.
Course Rules: Retakable w/chg of placement to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 812 Field Placement in Psychology
3 cr. Graduate.
Prerequisites: grad st; cons instr & placement supervisor.
Course Rules: Retakable for cr.
Current Offerings: http://uwm.edu/schedule

PSYCH 815 Cases in Clinical Neuropsychology
1 cr. Graduate.
Didactic training in clinical neuropsychological evaluation, diagnosis, treatment, and consulting. Format includes lectures, journal reviews, and case conferences.
Prerequisites: Clinical psych doctoral student or cons instr.
Course Rules: Retakable to 1 cr max. Counts as repeat of Psych 711 w/ similar topic.
Current Offerings: http://uwm.edu/schedule

PSYCH 821 Practicum in Assessment I
3 cr. Graduate.
Practical experience utilizing techniques used in Assessment I (Psych 831).
Prerequisites: grad st; Psych 712(P), 801(P), 912(P); clinical training prog. Conc reg Psych 831(C) by clinical Psych students.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PSYCH 822 Practicum in Assessment II
1-3 cr. Graduate.
Practical experience utilizing techniques used in Assessment II (Psych 832).
Prerequisites: grad st; Psych 821(P); clinical training prog. Psych 832(C) by clinical psych students.
Current Offerings: http://uwm.edu/schedule

PSYCH 831 Assessment I
3 cr. Graduate.
Objective techniques used in the appraisal of personality and intellectual processes.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PSYCH 832 Assessment II
3 cr. Graduate.
Neuropsychological, child-focused, and projective techniques used in the appraisal of personality and intellectual processes.
Prerequisites: grad st; Psych 831(P).
Current Offerings: http://uwm.edu/schedule

PSYCH 833 Neuropsychology
3 cr. Graduate.
Anatomy, pathology, and neuropsychology of the higher brain functions in humans. Prereq: grad st.
Prerequisites:
Current Offerings: http://uwm.edu/schedule

PSYCH 834 Seminar in Advanced Assessment:
3 cr. Graduate.
Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.
Prerequisites: grad st: Psych 831(P).
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PSYCH 842 Practicum in Therapy
4 cr. Graduate.
Supervised practicum experience with therapeutic techniques used in clinical psychology.
Prerequisites: grad st; Psych 712(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 844 Practicum in Clinical Supervision
3 cr. Graduate.
Practicum to enhance theoretical and practical skills for supervising clinical work.
Prerequisites: grad st; completion of all required clinical Psych courses & practica.
Course Rules: Retakable to 12 cr max.
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PSYCH 845 Practicum in Empirically-Supported Interventions
1-3 cr. Graduate.
Application of techniques learned in Psych 742 (Empirically-Supported Interventions).
Prerequisites: grad st; Psych 742(C).
Course Rules: Retakable once to 3 cr max.
Current Offerings: http://uwm.edu/schedule

PSYCH 854 Behavioral Neuroscience
3 cr. Graduate.
Introduction to current research and theory regarding the neural basis of behavior.
Prerequisites: grad st.
Course Rules: Not open to students who have cr in Psych 654(ER).
Current Offerings: http://uwm.edu/schedule
PSYCH 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

PSYCH 890 Graduate Research
1-6 cr. Graduate.
Prerequisites: grad st & sponsorship by a grad faculty member.
Course Rules: Retakable.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 911 Current Topics and Techniques in Clinical Psychology:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max for masters students & 12 cr max for doctoral students.
Current Offerings: http://uwm.edu/schedule

PSYCH 912 Developmental Psychopathology
3 cr. Graduate.
Seminar on concepts and research in the scientific study of psychopathology across the lifespan
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PSYCH 914 Seminar in Stimulus Control
3 cr. Graduate.
Seminar on topics of traditional and contemporary theoretical interest in stimulus control.
Prerequisites: grad st; Psych 714(P) or equiv.
Current Offerings: http://uwm.edu/schedule

PSYCH 915 Seminar in Operant Behavior
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PSYCH 919 Seminar in Classical Conditioning
3 cr. Graduate.
Seminar on topics of empirical and theoretical interest in classical conditioning.
Prerequisites: grad st; Psych 714(P) or equiv.
Current Offerings: http://uwm.edu/schedule

PSYCH 930 Seminar in Social Psychology
3 cr. Graduate.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PSYCH 932 Proseminar in Evaluation Research
3 cr. Graduate.
In-depth examination of experimental and quasi-experimental methodologies for assessing the impact of social innovations; factors impeding implementation of such methodologies; utilization of available findings.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PSYCH 933 Seminar in Neuroscience
2 cr. Graduate.
Student oral and poster presentations in cellular, molecular, behavioral, and cognitive neuroscience. Students will also write evaluations and summaries of external presentations.
Prerequisites: grad st in Bio Sci, Psych, or Ed Psych or cons instr
Course Rules: Retakable to 8 cr max. Psych 933 & Bio Sci 933 are jointly offered; students may enroll under only one of the curricular areas in any single semester.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

PSYCH 954 Seminar in Physiological Psychology
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PSYCH 955 Seminar in Social Psychology and Health
3 cr. Graduate.
Theoretical and empirical contributions of social psychology to health.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PSYCH 961 Seminar in Child-Clinical Psychology
3 cr. Graduate.
Diagnosis, etiology, therapy, and research in child-clinical psychology are discussed and criticized.
Prerequisites: grad st.
Last Taught: Fall 2007, Fall 2006, Fall 2005, Fall 2001.
Current Offerings: http://uwm.edu/schedule

PSYCH 990 Doctoral Research
1-6 cr. Graduate.
Prerequisites: grad st & admis to candidacy for Ph.D. degree.
Course Rules: Retakable.
Current Offerings: http://uwm.edu/schedule

PSYCH 995 Clinical Psychology Internship
1-3 cr. Graduate.
Required internship for students in the clinical psychology PhD program.
Prerequisites: clinical psych doctoral student; dissertator status; proposal hearing passed; cons instr.
Course Rules: Retakable. Students who have passed dissertation defense enroll for 1 cr; all others enroll for 3 cr.
Current Offerings: http://uwm.edu/schedule
## Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Vincent J. Adesso</td>
<td>Professor Emerita</td>
<td>PhD</td>
<td>State University of New York at Binghamton</td>
<td></td>
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</tr>
<tr>
<td>Shawn Cahill</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Michigan State University</td>
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</tr>
<tr>
<td>W. Hobart Davies</td>
<td>Professor, Chair</td>
<td>PhD</td>
<td>Brown University</td>
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</tr>
<tr>
<td>Marshall L. Dermer</td>
<td>Associate Professor Emerita</td>
<td>PhD</td>
<td>University of Lethbridge, Canada</td>
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</tr>
<tr>
<td>Kamran Diba</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Uniformed Services University of the Health Sciences</td>
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</tr>
<tr>
<td>Ira Driscoll</td>
<td>Assistant Professor</td>
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<tr>
<td>Raymond Fleming</td>
<td>Professor</td>
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<tr>
<td>Karyn Frick</td>
<td>Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
<td></td>
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</tr>
<tr>
<td>Adam Greenberg</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
<td></td>
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<tr>
<td>Anthony J. Greene</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Boston College</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Deborah Hannula</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Illinois at Urbana-Champaign</td>
<td></td>
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<tr>
<td>John C. Hay</td>
<td>Professor Emerita</td>
<td>PhD</td>
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<tr>
<td>Fred J. Helmstetter</td>
<td>Professor</td>
<td>PhD</td>
<td>Dartmouth College</td>
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<tr>
<td>Michael T. Hynan</td>
<td>Professor Emerita</td>
<td>PhD</td>
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<tr>
<td>Arnold E. Kaufman</td>
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<tr>
<td>Khalil A. Khavari</td>
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<td>PhD</td>
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</tr>
<tr>
<td>Bonita Klein-Tasman</td>
<td>Professor, Clinical Director</td>
<td>PhD</td>
<td>Emory University</td>
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</tr>
<tr>
<td>Tiffany Kodak</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Louisiana State University</td>
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</tr>
<tr>
<td>Christine Larson</td>
<td>Associate Professor, Associate Chair</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
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</tr>
<tr>
<td>Hanjoo Lee</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Texas-Austin</td>
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<tr>
<td>Susan D. Lima</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Massachusetts</td>
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<tr>
<td>Krista Medina</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Cincinnati</td>
<td></td>
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</tr>
<tr>
<td>Marcellus M. Merritt</td>
<td>Associate Professor Emerita</td>
<td>PhD</td>
<td>Howard University</td>
<td></td>
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</tr>
<tr>
<td>Marilyn E. Miller</td>
<td>Professor Emerita</td>
<td>PhD</td>
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<tr>
<td>John C. Moore</td>
<td>Professor Emerita</td>
<td>PhD</td>
<td></td>
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</tr>
<tr>
<td>Katie E. Mosack</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>The Ohio State University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>James R. Moyer Jr.</td>
<td>Associate Professor, Associate Dean of L&amp;S Social Sciences</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>David C. Osmon</td>
<td>Professor</td>
<td>PhD</td>
<td>University of South Dakota</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Richard H. Passman</td>
<td>Professor Emerita</td>
<td>PhD</td>
<td>Uniformed Services University of the Health Sciences</td>
<td></td>
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</tr>
<tr>
<td>Diane M. Reddy</td>
<td>Professor</td>
<td>PhD</td>
<td></td>
<td></td>
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<tr>
<td>Robyn C. Ridley</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Missouri-Columbia</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Pamela Schaefer</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
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</tr>
<tr>
<td>Kristin Smith</td>
<td>Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
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<tr>
<td>Rodney Swain</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Southern California</td>
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<tr>
<td>Jeffrey Tiger</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Kansas</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Richard M. Warren</td>
<td>Distinguished Professor Emeritus</td>
<td>PhD</td>
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</tr>
</tbody>
</table>

**Psychology, BA**

Psychology is a science that provides critical insights into human behavior. Psychologists investigate how behavior is modified in the face of psychiatric disorders or disease and how the brain gives rise to the rich tapestry of behaviors that govern our day-to-day experiences.

A psychology major gives you much career flexibility because of its emphasis on reasoning, problem solving, critical thinking,
communication, research and writing. In addition to becoming a counselor or therapist, many students go into human resources, sales, marketing, business management, law, medicine, social work, real estate, social services, and more – all fields that require comprehensive knowledge of human behavior.

Many students go on to graduate school to pursue specialized training. This may lead to a career as a counselor, therapist, or research scientist. In most states, a master’s degree is required to become a licensed practitioner. At UWM, our Psychology major can be tailored: the Bachelor of Arts route is ideal for students planning a career in human services while the Bachelor of Science route focuses on neuroscience and is well-suited for students looking to go into a graduate research program or medical school.

The version of the major that leads to a Bachelor of Arts can be completed entirely on-line if that is desired.

Psychology students at UWM have a distinct advantage – they can participate in research as undergraduates, sometimes even as soon as freshman year. In psychology labs, students work directly with faculty and graduate students on their current research projects, and sometimes contribute as co-authors to peer-reviewed presentations or publications. In addition, a number of psychology students complete Field Placements. The Field Placement is similar to an internship and permits students to step out of the traditional classroom setting and volunteer with a community organization that has a mission consistent with the psychology degree. In each case, our students acquire fundamental skills, have opportunities to explore and refine their interests, and establish meaningful connections that permit them to make informed decisions about their future pursuits.

**Psychology Major Requirements**

The Department of Psychology offers a major in psychology leading to either the Bachelor of Arts or Bachelor of Science degree. Except for an advanced natural science credit requirement for the BS, the psychology requirements for the BS and BA degrees are the same; however, students should check the general requirements for the degree (e.g., general education requirements) carefully as they differ for the BA and BS. Students opting for the BS will need to complete at least 30 credits in approved advanced L&S natural science courses, at least 15 of which must be completed in Psychology.

**Requirements**

**Course of Study – Bachelor of Arts Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td><strong>Oral and Written Communication</strong></td>
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<tr>
<td>Part A</td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<tr>
<td>Part B</td>
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<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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<tr>
<td><strong>Quantitative Literacy</strong></td>
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<tr>
<td>Part A</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
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<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
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<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
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<tr>
<td>Or equivalent course</td>
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<tr>
<td>Part B</td>
<td></td>
<td></td>
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<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
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<tr>
<td><strong>Arts</strong></td>
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<td>Select 3 credits</td>
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<tr>
<td><strong>Humanities</strong></td>
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<td>Select 6 credits</td>
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<tr>
<td><strong>Social Sciences</strong></td>
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<tr>
<td>Select 6 credits</td>
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<tr>
<td><strong>Natural Sciences</strong></td>
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<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
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<tr>
<td><strong>UWM Foreign Language Requirement</strong></td>
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<tr>
<td>Complete Foreign Language Requirement through:</td>
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<tr>
<td>Two years (high school) of a single foreign language</td>
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<tr>
<td>Two semesters (college) of a single foreign language</td>
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<tr>
<td>Or equivalent</td>
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<tr>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
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<tr>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
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</tbody>
</table>

**College of Letters & Science Requirements**

I. **English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. **Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:
Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
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<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
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</tbody>
</table>

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
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</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 175</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
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<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Students are advised to select a course that satisfies the Cultural Diversity (CD) designation.

Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses
from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Psychology Major Requirements
To be accepted as a major in psychology, students must have completed PSYCH 101 and 15 university credits. The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The undergraduate major consists of 33 or 34 credits in psychology, at least 15 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses (17 cr):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 325</td>
<td>Research Methods in Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 205</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 214</td>
<td>Introduction to Conditioning and Learning</td>
<td></td>
</tr>
<tr>
<td>PSYCH 230</td>
<td>Social Psychology: Psychological Perspectives</td>
<td></td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

Upper-Level Courses
Select one of the following:  16-17

Select one advanced laboratory course and four Systems and Foundations courses (16 credits)

Select two advanced laboratory courses and three Systems and Foundations courses (17 credits)

Total Credits  33-34

Research Experience
The College of Letters and Science requires that students complete a research experience in their major. The Department of Psychology has structured its advanced laboratory courses to satisfy that requirement. In these laboratory courses, students run multiple experiments, collect and analyze data quantitatively, and write up the results in a standard journal article format, integrating the results with a critical survey of relevant professional literature. The Systems and Foundations courses are non-laboratory, upper-level courses designed to provide in-depth knowledge on specific topics in psychology. Students are welcome to take additional Systems and Foundations courses as electives.

Cross-Listed Courses
The following courses offered by other academic units may be used to fulfill requirements of the undergraduate major in psychology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 656</td>
<td>Psychophysiology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 660</td>
<td>Experimental Child Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 677</td>
<td>Experimental Social Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the Major
Psychology majors who meet the following criteria are awarded Honors in the Major:

1. A 3.000 cumulative GPA on all credits attempted;
2. A 3.500 GPA on all credits that count toward the major; and
3. A 3.500 GPA on all advanced credits that count toward the major.
Hons in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Associate Professor Deborah Hannula, hannula@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/psychology/undergraduate/

Psychology, BS
Psychology is a science that provides critical insights into human behavior. Psychologists investigate how behavior is modified in the face of psychiatric disorders or disease and how the brain gives rise to the rich tapestry of behaviors that govern our day-to-day experiences.

A psychology major gives you much career flexibility because of its emphasis on reasoning, problem solving, critical thinking, communication, research and writing. In addition to becoming a counselor or therapist, many students go into human resources, sales, marketing, business management, law, medicine, social work, real estate, social services, and more – all fields that require comprehensive knowledge of human behavior.

Many students go on to graduate school to pursue specialized training. This may lead to a career as a counselor, therapist, or research scientist. In most states, a master’s degree is required to become a licensed practitioner. At UWM, our Psychology major can be tailored: the Bachelor of Arts route is ideal for students planning a career in human services while the Bachelor of Science route focuses on neuroscience and is well-suited for students looking to go into a graduate research program or medical school.

The version of the major that leads to a Bachelor of Arts can be completed entirely on-line if that is desired.

Psychology students at UWM have a distinct advantage – they can participate in research as undergraduates, sometimes even as soon as freshman year. In psychology labs, students work directly with faculty and graduate students on their current research projects, and sometimes contribute as co-authors to peer-reviewed presentations or publications. In addition, a number of psychology students complete Field Placements. The Field Placement is similar to an internship and permits students to step out of the traditional classroom setting and volunteer with a community organization that has a mission consistent with the psychology degree. In each case, our students acquire fundamental skills, have opportunities to explore and refine their interests, and establish meaningful connections that permit them to make informed decisions about their future pursuits.

Psychology Major Requirements
The Department of Psychology offers a major in psychology leading to either the Bachelor of Arts or Bachelor of Science degree. Except for an advanced natural science credit requirement for the BS, the psychology requirements for the BS and BA degrees are the same; however, students should check the general requirements for the degree (e.g., general education requirements) carefully as they differ for the BA and BS.

Students opting for the BS will need to complete at least 30 credits in approved advanced L&S natural science courses, at least 15 of which must be completed in Psychology.

Requirements
Course of Study – Bachelor of Science Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated upper-level Natural Science. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Select one of the following:

- MATH 103 Contemporary Applications of Mathematics
- MATH 105 Introduction to College Algebra
- MATH 108 Algebraic Literacy II
  Or equivalent course

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits

**Humanities**

Select 6 credits

**Social Sciences**

Select 6 credits

**Natural Sciences**

Select 6 credits (At least two courses including one lab)

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
  Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

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### College of Letters & Science Requirements

#### I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

#### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus and Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 212, or Letters and Science statistics courses:

#### Complete one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

#### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

#### Completed in one of the following ways:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

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#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

1. Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above
2. Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.
3. Complete 9 credits in combination of the two options above.
Psychology Major Requirements
To be accepted as a major in psychology, students must have completed PSYCH 101 and 15 university credits. The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The undergraduate major consists of 33 or 34 credits in psychology, at least 15 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses (17 cr):

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</thead>
<tbody>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Research Experience
The College of Letters and Science requires that students complete a research experience in their major. The Department of Psychology has structured its advanced laboratory courses to satisfy that requirement. In these laboratory courses, students run multiple experiments, collect and analyze data quantitatively, and write up the results in a standard journal article format, integrating the results with a critical survey of relevant professional literature. The Systems and Foundations courses are non-laboratory, upper-level courses designed to provide in-depth knowledge on specific topics in psychology. Students are welcome to take additional Systems and Foundations courses as electives.

Cross-Listed Courses
The following courses offered by other academic units may be used to fulfill requirements of the undergraduate major in psychology:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 455</td>
<td>Cellular, Molecular and Developmental Neurobiology</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 442</td>
<td>Industrial Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless of their major in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.
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All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the Major**

Psychology majors who meet the following criteria are awarded Honors in the Major:

1. A 3.000 cumulative GPA on all credits attempted;
2. A 3.500 GPA on all credits that count toward the major; and
3. A 3.500 GPA on all advanced credits that count toward the major.

**Honors in the College of Letters and Science**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact Associate Professor Deborah Hannula, hannula@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/psychology/undergraduate/

**Psychology, Minor**

Psychology is a science that provides critical insights into human behavior. Psychologists investigate how behavior is modified in the face of psychiatric disorders or disease and how the brain gives rise to the rich tapestry of behaviors that govern our day-to-day experiences.

The minor in Psychology can be completed entirely on-line if that is desired.

Psychology students at UWM have a distinct advantage – they can participate in research as undergraduates, sometimes even as soon as freshman year. In psychology labs, students work directly with faculty and graduate students on their current research projects, and sometimes contribute as co-authors to peer-reviewed presentations or publications.

**Requirements**

The College of Letters and Science requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

To be accepted as a minor in psychology, students must have completed PSYCH 101. The undergraduate minor consists of 18 credits in psychology, at least 9 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>PSYCH 205</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>PSYCH 214</td>
<td>Introduction to Conditioning and Learning</td>
<td></td>
</tr>
<tr>
<td>PSYCH 230</td>
<td>Social Psychology: Psychological Perspectives</td>
<td></td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYCH 260</td>
<td>Child Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Select any four additional psychology courses, at least three of which must be at the 300 level or above 12

**Total Credits** 18

Please note: If you are considering a potential major in Psychology, it is recommended highly that you take PSYCH 210 and PSYCH 325 as these are required for the major.
Contact Information
Current Students contact Associate Professor Deborah Hannula, hannula@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/psychology/undergraduate/

Psychology, MS
The Department of Psychology offers two graduate degrees: the PhD in Psychology and the MS in Psychology. Study is available in the following concentrations, which we refer to as programs.

PhD in Psychology (includes earning the MS)
- Clinical Psychology program (accredited by the American Psychological Association)
- Health Psychology program
- Neuroscience program

MS in Psychology
- Terminal Health Psychology program.

1 Please note that the Department of Biological Sciences and several other departments also offer opportunities for doctoral study in neuroscience.

All programs train students in the facts, methodologies, and theories of psychology, with special emphasis on developing research competence. The department has well-equipped laboratories and an on-campus training clinic. The city of Milwaukee provides additional opportunities for training at hospitals, social service agencies, and the Medical College of Wisconsin.

Note that all of the department’s doctoral programs are actually combined MS/PhD programs, although students who already have a master’s degree in psychology or neuroscience are also encouraged to apply. If admitted, they will not be required to earn the MS at UWM if their master’s degree included an empirically based thesis.

Transfer from a PhD program to any another PhD program in our department requires reapplication.

Although it is possible for the academic portion of the doctoral program to be completed in four years, most students require five or more years. Doctoral students are expected to be enrolled full time and to earn their PhDs within seven years of initial enrollment, exclusive of the one-year internship required in the clinical program.

Students seeking only master’s-level training may apply to the health psychology specialization. It is possible to complete requirements for the MS in two or three years of full-time study. Part-time study is allowable, as long as the MS is earned within seven years of enrolling.

Students may not earn more than two degrees from the Department of Psychology at UWM. Therefore, students who earned a bachelor’s degree in psychology from UWM are not eligible to apply for admission to the doctoral program unless they earned a master’s degree in psychology elsewhere.

The department refers students interested in Counseling Psychology or School Psychology to the Department of Educational Psychology.

Application
Application must be made to the Graduate School.

Applicants are admitted only at the beginning of each academic year. Applications must be submitted by December 1. Important: It is essential to consult the department’s website for important information, including the departmental admissions brochure: http://uwm.edu/psychology/graduate/application/

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School (http://uwm.edu/graduateschool/admission/) requirements plus the following departmental requirements to be considered for admission to the program:

1. Completion of an undergraduate major in psychology (or neuroscience).
2. Submission of scores on the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre).
3. Receipt of positive recommendation by the Departmental Admissions Committee.

Admission is based on evaluation of an applicant’s entire record. In evaluating each application, the Admissions Committee examines such factors as GRE scores, grades, research record (e.g., research apprenticeships, publications, presentations, and senior or honors theses), and letters of recommendation.

Students without an undergraduate major in psychology (or neuroscience) may be considered for admission provided the following courses are completed: introductory statistics, a laboratory course in research methods of psychology, and an advanced laboratory course in psychology. Students with one of these courses are eligible to apply, but the two remaining courses would have to be completed within three semesters of enrollment. No course credits earned in making up deficiencies may be counted as program credits required for the degree. Students satisfying only this very minimal requirement should understand that additional work may be required to enroll in specific graduate-level courses.

As part of their doctoral requirements, PhD students must earn a master’s degree in psychology that includes a thesis derived from empirical research; they do this by fulfilling the requirements of the “General Psychology Track” for the MS degree while enrolled simultaneously in the PhD program. An exception is that students who already have earned a master’s degree based on an empirical thesis in psychology or neuroscience from another college or university are exempt from the requirement of earning the MS in our department.

Advising and the Major Professor
Graduate School and departmental regulations require students to have a major professor to direct their research activities. It is important
for students to start their research early in their graduate studies. Admittees are assigned to a major professor they have chosen during the admissions process.

Before the end of the second semester, the student must form an advisory committee of three departmental faculty members, including the student's major professor. Students are free to change their major professor at any time. The Department also provides a Graduate Program Coordinator, who advises about courses and program requirements and who approves programs of study. The Graduate Program Coordinator is also available to help students who wish to change their major professors to find new ones.

**Credits and Courses**

**General Psychology Track**

Students in the general psychology track must be simultaneously enrolled in the doctoral program. The minimum requirement for the MS is 30 graduate credits of psychology, 24 of which must be earned in formal coursework (excluding practica) and 6 of which must be earned through an acceptable thesis.

**Thesis**
The student, under the direction of an advisor, must develop an acceptable thesis based on empirical research. The student must pass an oral examination in defense of the thesis.

**Time Limit**
The student must complete all degree requirements within three years of initial enrollment.

**Specialization in Health Psychology**

Health psychology is concerned with the psychological variables that influence physical health and illness. The MS program in health psychology offers training in research and theories relevant to health promotion. The program of study consists of core health psychology coursework, research coursework, psychology breadth coursework, and an optional field placement. Current research topics include gender and health, cancer prevention and health education, reproductive health and STD prevention, patient advocacy and self-care behaviors, the effects of stress and mechanisms of coping with it, and child abuse prevention. Research is conducted in the laboratory as well as in clinical settings, and many members of the faculty have strong ties to the Milwaukee community.

**Course of Study**
The course of study consists of at least 36 credits, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 955</td>
<td>Seminar in Social Psychology and Health</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select three of the following:</td>
<td>9</td>
</tr>
<tr>
<td>PSYCH 578</td>
<td>Psychology of Race, Ethnicity, and Health</td>
<td></td>
</tr>
<tr>
<td>PSYCH 754</td>
<td>Proseminar in Biological Psychology</td>
<td></td>
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<tr>
<td>PSYCH 756</td>
<td>Psychophysiology</td>
<td></td>
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<tr>
<td>PSYCH 711</td>
<td>Current Topics in Psychology: (health-related topic)</td>
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<tr>
<td>PSYCH 833</td>
<td>Neuropsychology</td>
<td></td>
</tr>
<tr>
<td>PSYCH 854</td>
<td>Behavioral Neuroscience</td>
<td></td>
</tr>
</tbody>
</table>

The MS specialty in health psychology emphasizes the application of psychological theories to health-related issues. Although students are exposed to theories and applications in coursework, the field placement option offers a further opportunity to learn by doing. Students are encouraged to take at least 3 credits of PSYCH 812 in their area of interest.

**Thesis or Project**
The student, under the direction of an advisor, has the option of developing either an acceptable thesis based on empirical research or an acceptable project (a review or theoretical paper). In either case, students must demonstrate their ability to formulate a research idea and pursue independent and original investigation. The student must pass an oral examination in defense of the thesis, but no oral examination is required for a project.

**Time Limit**
The student must complete all requirements within seven years of initial enrollment.

**Psychology, PhD**

The Department of Psychology offers two graduate degrees: the PhD in Psychology and the MS in Psychology. Study is available in the following concentrations, which we refer to as programs.

**PhD in Psychology (includes earning the MS)**

- Clinical Psychology program (accredited by the American Psychological Association)
- Health Psychology program
- Neuroscience program

**MS in Psychology**

- Terminal Health Psychology program.

1 Please note that the Department of Biological Sciences and several other departments also offer opportunities for doctoral study in neuroscience.

All programs train students in the facts, methodologies, and theories of psychology, with special emphasis on developing research competence. The department has well-equipped laboratories and an on-campus training clinic. The city of Milwaukee provides additional opportunities for
training at hospitals, social service agencies, and the Medical College of Wisconsin.

Note that all of the department's doctoral programs are actually combined MS/PhD programs, although students who already have a master's degree in psychology or neuroscience are also encouraged to apply. If admitted, they will not be required to earn the MS at UWM if their master's degree included an empirically based thesis.

Transfer from a PhD program to any another PhD program in our department requires reapplication.

Although it is possible for the academic portion of the doctoral program to be completed in four years, most students require five or more years. Doctoral students are expected to be enrolled full time and to earn their PhDs within seven years of initial enrollment, exclusive of the one-year internship required in the clinical program.

Students seeking only master's-level training may apply to the health psychology specialization. It is possible to complete requirements for the MS in two or three years of full-time study. Part-time study is allowable, as long as the MS is earned within seven years of enrolling.

Students may not earn more than two degrees from the Department of Psychology at UWM. Therefore, students who earned a bachelor's degree in psychology from UWM are not eligible to apply for admission to the doctoral program unless they earned a master's degree in psychology elsewhere.

The department refers students interested in Counseling Psychology or School Psychology to the Department of Educational Psychology.

### Application

Application must be made to the Graduate School.

Applicants are admitted only at the beginning of each academic year. Applications must be submitted by December 1. Important: It is essential to consult the department's website for important information, including the departmental admissions brochure: http://uwm.edu/psychology/graduate-application/

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

### Admission

An applicant must meet Graduate School requirements and the following departmental requirements to be considered for admission to the program:

1. Completion of an undergraduate major in psychology (or neuroscience).
2. Submission of scores on the General Test of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre).
3. Receipt of a positive recommendation by the Departmental Admissions Committee.

Admission is based on evaluation of an applicant’s entire record. In evaluating each application, the Admissions Committee examines such factors as GRE (http://uwm.edu/graduateschool/admission/#gre) scores, grades, research record (e.g., research apprenticeships, publications, presentations, and senior or honors theses), and letters of recommendation.

Students without an undergraduate major in psychology (or neuroscience) may be considered for admission provided the following courses are completed: introductory statistics, a laboratory course in research methods of psychology, and an advanced laboratory course in psychology. Students with one of these courses are eligible to apply, but the two remaining courses would have to be completed within three semesters of enrollment. No course credits earned in making up deficiencies may be counted as program credits required for the degree. Students satisfying only this very minimal requirement should understand that additional work may be required to enroll in specific graduate-level courses.

As part of their doctoral requirements, PhD students must earn a master’s degree in psychology that includes a thesis derived from empirical research; they do this by fulfilling the requirements of the "General Psychology Track" for the M.S. degree while enrolled simultaneously in the PhD program. An exception is that students who already have earned a master’s degree based on an empirical thesis in psychology or neuroscience from another college or university are exempt from the requirement of earning the M.S. in our department.

### Advising and the Major Professor

Graduate School and departmental regulations require students to have a major professor to direct their research activities. Entering students are assigned to the major professor they have chosen during the admissions process. Students are free to change their major professor at any time. The Department provides a Graduate Program Coordinator, who advises about courses and program requirements and who approves programs of study. The Graduate Program Coordinator also is available to help any student who wishes to change his/her major professor.

### Credits and Courses

The minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM.

#### Departmental Doctoral Curriculum

Only courses numbered 700 or above and a few departmentally-designated undergraduate/graduate courses, including PSYCH 510 and PSYCH 610, may be counted in the doctoral curriculum, which is specified in the department's Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook).

#### Clinical Psychology Curriculum

The Clinical Psychology curriculum consists of a sequence of required clinical courses, including courses in professional ethics, issues, and research methods in clinical psychology; developmental psychopathology; foundations of psychotherapy; assessment (two semesters); and empirically-supported interventions. Other required courses include a two-course statistics sequence, history of psychology, multicultural issues in counseling or clinical psychology, and lifespan developmental psychology. Also, Clinical Psychology students must fulfill American Psychological Association (APA) requirements by completing one course from each of the following areas: biological bases of behavior, cognitive/affective bases of behavior, and social bases of behavior.

In addition to classroom courses, students also must complete a sequence of practicum and community placement courses for intensive
training in assessment, diagnosis, therapy, and professional practice and, later, a pre-doctoral, extramural, full-time (2,000 hours) internship. Students should consult the department’s Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook) for details.

Completion of a departmental minor is optional for clinical students (available areas: Cognition and Perception, Developmental Psychology, Health Psychology, Neuroscience, and Quantitative Methods).

The clinical program strongly adheres to the scientist-practitioner model of training. It is designed to train psychologists as generalists. However, our faculty members' interests cluster in three primary areas including neuroscience/neuropsychology, cognitive/behavioral and behavioral therapies, and pediatric/health psychology. As a result, students often leave the clinical program with a focus in one or more of these areas. The clinical program is accredited by the American Psychological Association (APA).

In addition, the clinical program is a member of the Academy of Psychological Clinical Science. Membership in the Academy is granted only after a thorough peer review process. Our membership in the Academy indicates our commitment to excellence in scientific training and to using clinical science as the foundation for designing, implementing, and evaluating assessment and intervention procedures.

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1 Office of Program Consultation and Accreditation 750 First Street, NE Washington, DC 20002-4242. Phone: 202-336-5979

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### Health Psychology Curriculum

The Health Psychology curriculum consists of a core course in health psychology, two other courses in health psychology chosen in consultation with the major professor, a two-course statistics sequence, completion of two departmental minor areas of study (available areas: Cognition and Perception, Developmental Psychology, Neuroscience, Psychopathology, and Quantitative Methods) and one breadth course chosen in consultation with the major professor. Students should consult the department's Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook) for details.

Health psychology, which is concerned with the psychological variables that influence physical health and illness, has become a dominant force in the health sciences. The program offers training in research and theories relevant to health promotion. Faculty members and students work together on projects focused on gender and health, cancer prevention and health education, reproductive health and STD prevention, patient advocacy and self-care behaviors, the effects of stress and mechanisms of coping with it, and child abuse prevention. Research is conducted in the laboratory as well as in clinical settings, and many members of the faculty have strong ties to the Milwaukee community.

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### Neuroscience Curriculum

The Neuroscience curriculum includes four core courses (behavioral neuroscience, cellular and molecular neuroscience, cognitive neuroscience, and proseminar in biological psychology). Other required courses include a two-course statistics sequence, seminar in neuroscience (three semesters of official enrollment), and three electives, chosen in consultation with the major professor. Students should consult the department's Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook) for details.

Neuroscience is devoted to the study of the nervous system. The curriculum is designed to provide students with the intellectual and technical skills necessary for a productive career in academics or industry. Students are part of the greater Milwaukee Area Neuroscience group, which includes faculty members and students from various departments at UWM, the Medical College of Wisconsin, and Marquette University. Students learn a wide range of techniques working with laboratory animals and human subjects. These include experimental design, behavioral testing and analysis, neurophysiology, aseptic surgical techniques, quantitative protein and mRNA assays, immunohistochemistry, eyetracking, and functional magnetic resonance imaging (fMRI). Current research topics include cellular and molecular mechanisms of learning and memory; mapping brain areas involved in memory and emotion in humans and rodents using fMRI; effects of exercise on cerebral blood flow; mechanisms of recovery from brain damage; visual attention; effects of aging on learning and memory; and the role of calcium and calcium-binding proteins in ischemic cell death.

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### Multicultural Requirement

Clinical students must complete a course in multicultural issues in clinical or counseling psychology.

### Developmental Psychology Requirement

Clinical students must complete a graduate-level lifespan developmental psychology course.

### Extradenpartmental Minors and Certificates (optional)

If they wish, and with the approval of their major professors, students may complete, in another department, a coherent program of at least 8 graduate credits (undergraduate/graduate courses taken for graduate credit apply). They may also, if they wish, complete one or more graduate certificate programs.
Residence
The student must meet minimum Graduate School residence requirements. Please note the requirement of earning at least 27 graduate credits at UWM. For more information on residence, see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements) page.

Doctoral Preliminary Examination
Students must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The preliminary examination can be taken only after the master’s degree has been earned and all relevant coursework has been completed satisfactorily. The format of the examination depends on the program. Specific guidelines for preliminary examinations can be found in the department’s Doctoral Student Handbook (http://uwm.edu/psychology/graduate/doctoral-student-handbook).

Clinical Internship Requirement
With the approval of the department’s Clinical Training Committee, clinical students are eligible to begin a required one-year, 2,000-hour internship after they have passed the preliminary examination and the doctoral dissertation proposal hearing.

Dissertation Defense
The candidate must write a dissertation that demonstrates the ability to formulate a research topic and pursue independent and original investigation. A doctoral dissertation committee must have at least five members, at least three of whom must be tenure-track or tenured faculty in the UWM Department of Psychology who hold Graduate Faculty status. A maximum of two committee members can be individuals who have doctoral degrees but who do not have Graduate Faculty status at UWM.

Final Oral Examination
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment (four years if entering with a master’s degree), excluding internship.

For additional information on the PhD, see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements) page.
PUBLIC AND NON-PROFIT ADMINISTRATION

Douglas Ihrke, PhD, Professor, Chair and Director of Nonprofit Administration, Director of Public Administration
Alumni House 381, Phone: (414) 229-3167, Fax: (414) 229-2353

The public and nonprofit administration unit (PNA) houses several graduate programs, but also offers some courses at the undergraduate level. PNA oversees the following graduate programs:

- Master of Science in Nonprofit Management and Leadership
- Master of Public Administration
- Graduate Certificate in Nonprofit Management

PNA partners with the Department of Urban Planning to offer a coordinated Master of Public Administration/Master of Urban Planning program. Additionally, PNA partners with the Helen Bader School of Social Welfare to offer a joint Master of Science in Criminal Justice and Master of Public Administration.

Undergraduate courses in public administration will provide a background for students interested in pursuing graduate degrees in the field as well as for those who wish to enhance their studies in another program with an understanding of the administration of public and nonprofit programs.

- Nonprofit Management and Leadership, MS (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1728)
- Nonprofit Management, Graduate Certificate (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1729)
- Public Administration, MPA (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1730)
- Public Administration, MPA/Criminal Justice, MS (p. 1732)
- Public Administration, MPA/Urban Planning, MUP (p. 1733)

Nonprofit Administration Courses

NONPROF 704 Seminar in Nonprofit Organizations
3 cr. Graduate.
Overview of structure, functions, and governance of nonprofit organizations. Comparison with government and for-profit organizations. 
Prerequisites: grad st.
Course Rules: Nonprof 704, Pol Sci 704, Sociol 704, & Urb Std 704 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

NONPROF 705 Professionals and Volunteers in Nonprofit Organizations
3 cr. Graduate.
Seminar in techniques of management of professionals and volunteers in nonprofit organizations.
Prerequisites: grad st.
Course Rules: Nonprofit 705 & Pol Sci 705 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

NONPROF 725 Governance of Nonprofit Organizations
3 cr. Graduate.
Roles and responsibilities of governing boards and executive leaders. Critical review of alternative governance and executive leadership models. Counts as repeat of BusMgmt 725 and Pub Adm 958 w/same title.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

NONPROF 740 Executive Leadership of Nonprofit Organizations
3 cr. Graduate.
Nonprofit administration course designed to prepare students for a career in leadership and executive rules in nonprofit organizations. Counts as a repeat of Pub Adm 958 w/same topic.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

NONPROF 750 Social Entrepreneurship in the Nonprofit Sector
3 cr. Graduate.
In-depth exploration and examination of the concept of social entrepreneurship and how it is being understood, applied and practiced in the nonprofit sector.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

NONPROF 765 International Nongovernmental Organizations
3 cr. Graduate.
International nongovernmental organizations (INGOs) and the roles they play in relief and development work in developing countries.
Prerequisites: grad st.
Course Rules: Counts as a repeat of Pol Sci 958 & Pub Adm 958 w/same topic.
Last Taught: Fall 2016, Fall 2013.
Current Offerings: http://uwm.edu/schedule

NONPROF 770 Leveraging Technology in the Public and Nonprofit Sectors
3 cr. Graduate.
Application of information technology (IT) concepts and tools to challenges and opportunities in the public and nonprofit sectors. Counts as a repeat of Pub Adm 958 w/same topic.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

NONPROF 785 Managing Change in Public and Nonprofit Organizations
3 cr. Graduate.
Methods and techniques in the research and practice of organization development.
Prerequisites: grad st.
Course Rules: Counts as repeat of Pol Sci 958 & Pub Adm 958 w/same topic.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule
NONPROF 789 Theory and Role of Nonprofit Organizations
3 cr. Graduate.
Graduate-level introduction to nonprofit administration, including an examination of the role of the nonprofit sector in contemporary society.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

NONPROF 791 Nonprofit Advocacy and Public Policy
3 cr. Graduate.
Prerequisites: grad st
Course Rules: Nonprofit 791 & Pol Sci 791 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

NONPROF 792 Decision-Making for Nonprofit and Public Organizations
3 cr. Graduate.
Research methods including research design, measurement, and analysis. Qualitative and quantitative decision-making methods. Understanding and using basic statistical concepts and techniques in decision making.
Prerequisites: grad st
Course Rules: Nonprof 792 & Pub Adm 792(Pol Sci 792) are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

NONPROF 793 Law of Nonprofit Organizations
3 cr. Graduate.
Legal concepts and issues relevant to the formations and operations of nonprofit organizations. Complying with applicable federal and state statutes and regulations.
Prerequisites: grad st
Course Rules: Nonprof 793 & Pol Sci 793 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NONPROF 795 Introduction to Nonprofit Revenue Streams and Portfolios
3 cr. Graduate.
Trends and issues surrounding nonprofit finance in an attempt to sketch a portrait of nonprofit finance theory.
Prerequisites: grad st.
Course Rules: Counts as repeat of Pol Sci 958 & Pub Adm 958 w/Financing Nonprofits topic.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NONPROF 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement. Fee for 1 cr assessed.
Prerequisites: grad st
Last Taught: Fall 2014.
Current Offerings: http://uwm.edu/schedule

NONPROF 921 Nonprofit Administrative Internship
1-3 cr. Graduate.
Combines supervised field placement in a nonprofit organization with class sessions and assignments designed to augment the work experience.
Prerequisites: grad st; cons instr
Current Offerings: http://uwm.edu/schedule

NONPROF 958 Seminar in Nonprofit Administration:
3 cr. Graduate.
Selected topics covering different aspects of nonprofit administration. Counts as repeat of Pub Adm 958 w/same topic. Retakable w/change in topic to 9 cr max.
Prerequisites: grad st.
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

NONPROF 999 Independent Study
1-3 cr. Graduate.
Independent study in a subject area of special need or interest after consultation with a faculty member.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

Public Administration Courses

PUB ADM 243 Public Administration
3 cr. Undergraduate.
The means used to implement political values with emphasis on problems of administration in modern government.
Prerequisites: none.
Course Rules: Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

PUB ADM 400 Ethics and Responsibility in Public Administration
3 cr. Undergraduate/Graduate.
How public administrators make ethically-sound decisions; moral and value systems that shape public administration; temptations that can cause officials to stray from ethical standards.
Prerequisites: jr st.
Course Rules: Counts as repeat of Pol Sci 387 w/Administrative Ethics & Responsibility subtitle.
Last Taught: Fall 2014, Spring 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

PUB ADM 452 Administrative Law
3 cr. Undergraduate/Graduate.
An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory investigatory, and enforcement activities of administrative agencies.
Prerequisites: jr st.
Course Rules: American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2017, Summer 2012.
Current Offerings: http://uwm.edu/schedule
PUB ADM 461 Organizational Theory and Practice
3 cr. Undergraduate/Graduate.
Analysis of the role of organizations in contemporary society, with particular emphasis on governmental organizations that have formal regulation of individual group behavior as their basic functions.
Prerequisites: jr st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PUB ADM 630 Budgeting and Finance in the Public Sector
3 cr. Undergraduate/Graduate.
Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.
Prerequisites: Pub Adm 705 & UrbPlan 705 are jointly offered; they count as repeats of one another. Prerq: grad st.
Course Rules: Jointly-offered w/ & counts as repeat of UrbPlan 630.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PUB ADM 705 Government Public Relations and Advocacy
3 cr. Graduate.
External communications by public sector managers and planners for purposes of democratic accountability, fulfilling the mission of the agency, and communicating with elected officials.
Prerequisites: Pub Adm 705 & UrbPlan 705 are jointly offered; they count as repeats of one another. Prerq: grad st.
Last Taught: Spring 2012.
Current Offerings: http://uwm.edu/schedule

PUB ADM 730 Budgeting for Public Sector Professionals
3 cr. Graduate.
Budgeting skills for effective local and state government management; financial reporting, revenue collection and administration, pension funds, debt issuance, analytical techniques used in public budgeting.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

PUB ADM 750 Public Administration Risk and Analysis
3 cr. Graduate.
Efficiency analysis; return-on-investment analysis; shared services vs. privatization; total employee compensation as a management tool; risk mitigation; the government purchasing process.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

PUB ADM 763 Scope and Dynamics of Public Administration
3 cr. Graduate.
The field of public administration, including organization theory, public management, the politics of administration, and the role of government in policy-making.
Prerequisites: grad st.
Course Rules: Pol Sci 763 & Pub Adm 763 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PUB ADM 769 Analyzing and Evaluating Public Policies and Programs
3 cr. Graduate.
Examination of methods, including cost-benefit analysis and decision analysis, that aid policy makers and administrators in understanding and assessing public and nonprofit sector policies and programs.
Prerequisites: grad st.
Course Rules: Pol Sci 769 & Pub Adm 769 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

PUB ADM 792 Decision-Making for Nonprofit and Public Organizations
3 cr. Graduate.
Research methods including research design, measurement, and analysis. Qualitative and quantitative decision-making methods. Understanding and using basic statistical concepts and techniques in decision making.
Prerequisites: grad st
Course Rules: Nonprof 792 & Pub Adm 792 (Pol Sci 792) are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

PUB ADM 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Last Taught: Fall 2016, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PUB ADM 914 Seminar in Intergovernmental Relations
3 cr. Graduate.
Policy issues in intergovernmental relations and the complex governmental context in which Americans live and work.
Prerequisites: grad st.
Course Rules: Pol Sci 914 & Pub Adm 914 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2016, Fall 2014, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

PUB ADM 921 Public Service Administrative Internship
3 cr. Graduate.
This course combines a supervised field placement in a governmental agency or non-profit organization with class sessions and assignments designed to augment the work experience.
Prerequisites: grad st; cons instr.
Last Taught: Spring 2018, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PUB ADM 958 Seminar in Public Administration:
3 cr. Graduate.
Selected topics covering different aspects of public administration.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2016, UWinterIM 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule
PUB ADM 959 Capstone Seminar in Public Administration
3 cr. Graduate.
Seminar in public administration focusing on administrative ethics and applied research. Requires written and oral presentation of research project.
Prerequisites: grad st; completion of MPA core curriculum.
Current Offerings: http://uwm.edu/schedule

PUB ADM 965 Municipal Management
3 cr. Graduate.
The political, social, and economic contexts in which the urban manager functions, with an emphasis on managing municipal service delivery and resources.
Prerequisites: grad st.
Course Rules: Pub Adm 965(Pol Sci 965) & Urb Std 965 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

PUB ADM 999 Independent Study
1-3 cr. Graduate.
Independent study in a subject area of special need or interest after consultation with a faculty member.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layth Alwan</td>
<td>Associate Professor (Business)</td>
<td>PhD</td>
<td>University of Chicago</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Erica Bornstein</td>
<td>Associate Professor (Anthropology)</td>
<td>PhD</td>
<td>University of California-Irvine</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Marcus Ethridge</td>
<td>Professor Emerita</td>
<td>PhD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sarah Freeman</td>
<td>Associate Professor (Business)</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Shale A. Horowitz</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Douglas M. Ihrke</td>
<td>Professor, Chair, Director of Nonprofit Administration, Director of Public Administration</td>
<td>PhD</td>
<td>Northern Illinois University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Mordecai Lee</td>
<td>Professor (Architecture and Urban Planning)</td>
<td>PhD</td>
<td>Syracuse University</td>
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</tr>
<tr>
<td>Laestadius Linnea</td>
<td>Assistant Professor (Public Health)</td>
<td>PhD</td>
<td>Johns Hopkins University</td>
<td></td>
<td>✓</td>
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<tr>
<td>Larry Martin</td>
<td>Professor (Administrative Leadership)</td>
<td>PhD</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Daniel Neely</td>
<td>Associate Professor (Business)</td>
<td>PhD</td>
<td>University of Houston</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Deborah Padgett</td>
<td>Associate Professor (Social Work)</td>
<td>PhD</td>
<td>Washington University</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>James A. People</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laura Peracchio</td>
<td>Professor (Business)</td>
<td>PhD</td>
<td>Northwestern University</td>
<td></td>
<td>✓</td>
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<tr>
<td>Belle Rose Ragins</td>
<td>Professor (Business)</td>
<td>PhD</td>
<td>University of Tennessee</td>
<td></td>
<td>✓</td>
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<tr>
<td>Romila Singh</td>
<td>Associate Professor (Business)</td>
<td>PhD</td>
<td>Drexel University</td>
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<td></td>
</tr>
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</table>
Nonprofit Management and Leadership, MS (College of Letters and Science, Department of Public and Nonprofit Administration)

Related Certificates

- Graduate Certificate in Nonprofit Management (p. 412)

Overview

The College of Letters and Science and the Sheldon B. Lubar School of Business offer and present jointly the Master of Science (MS) in Nonprofit Management and Leadership. The program is designed to provide students with the essential theoretical and practical knowledge and skills needed to be successful in managing and leading nonprofit sector organizations.

Application Deadlines

Applications are considered on a rolling admissions basis, although we suggest that a completed portfolio be submitted at least 6-8 weeks prior to the beginning of the starting semester.

Applicants should keep in mind that applications for various University fellowships are typically due in January. If you are planning to apply for Financial Aid (http://uwm.edu/onestop/contact/financial-aid), all application materials must be submitted by March 1 of each year.

Admission

To be admitted to the MS in Nonprofit Management and Leadership degree program, an applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission).

During the admissions process, students will be asked to show evidence of having satisfactorily completed undergraduate or higher level foundation coursework in the principles of accounting and economics. Those students who are unable to show such evidence may be admitted with these academic deficiencies but will then meet with their respective academic advisors to identify and obtain approval for what they must do to remove these deficiencies.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants must submit the following for review by the Graduate School and the Nonprofit Management Program Faculty Committee:

1. Official transcripts from all colleges or universities previously attended.
2. Three letters of recommendation from persons familiar with the applicant's academic ability and/or professional achievements.
3. Scores from either the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).
4. For those students whose native language is not English, minimum TOEFL score (Test of English as a Foreign Language) of 550 PBT or 79 iBT or minimum IELTS score (International English Language Testing System) of 6.5.
5. Each student’s academic preparation is evaluated at the time of application. A personal interview may be required.

Credits and Courses

The MS in Nonprofit Management and Leadership degree requires satisfactory completion of 39 credits of graduate-level coursework including 33 credit-hours of required or "constrained choice" courses and 6 credit-hours of elective courses as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUSMGMT 718</td>
<td>Concepts and Practice of Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 721</td>
<td>Fundraising and Development for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 705</td>
<td>Professionals and Volunteers in Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 725</td>
<td>Governance of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 792</td>
<td>Decision-Making for Nonprofit and Public Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 793</td>
<td>Law of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 795</td>
<td>Introduction to Nonprofit Revenue Streams and Portfolios</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NONPROF 791</td>
<td>Nonprofit Advocacy and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 958</td>
<td>Seminar in Nonprofit Administration: (The Nonprofit Economy)</td>
<td></td>
</tr>
<tr>
<td>NONPROF 740</td>
<td>Executive Leadership of Nonprofit Organizations</td>
<td></td>
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Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUSMGMT 730</td>
<td>Strategic Management and Leadership for Nonprofit Organizations</td>
<td>3</td>
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Electives

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 707</td>
<td>Information Technology Management in International Businesses</td>
<td></td>
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<tr>
<td>BUSMGMT 715</td>
<td>Leadership, Team Building, and Effective Management</td>
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<td>NONPROF 750</td>
<td>Social Entrepreneurship in the Nonprofit Sector</td>
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<tr>
<td>NONPROF 765</td>
<td>International Nongovernmental Organizations</td>
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<tr>
<td>NONPROF 770</td>
<td>Leveraging Technology in the Public and Nonprofit Sectors</td>
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<tr>
<td>NONPROF 785</td>
<td>Managing Change in Public and Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>NONPROF 921</td>
<td>Nonprofit Administrative Internship</td>
<td></td>
</tr>
</tbody>
</table>
1 This course will serve as the integrative “capstone” requirement for the program and must be taken after completing all other required courses (or concurrently with the final required courses).

2 This is a pre-approved but not exhaustive list: Students may request alternative courses offered in other departments at UWM. Please send an email to Program Advisor with a course description and/or syllabus, and stated reasons why the course being proposed is an appropriate fit for the student’s academic and career goals.

Program Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

Thesis
Not Required

Comprehensive Examination
Not Required

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Nonprofit Management, Graduate Certificate (College of Letters and Science, Department of Public and Nonprofit Administration)

The Graduate Certificate in Nonprofit Management is a collaborative effort between the Lubar School of Business, the College of Letters & Science, and other campus units that have research and/or teaching interests in nonprofit management and leadership, nonprofit organizations, the nonprofit sector, and philanthropy. The certificate responds to the growing need for trained professionals to assume management and leadership positions in non-governmental, nonprofit sector organizations.

The multi-disciplinary Graduate Certificate in Nonprofit Management is designed to provide students with the knowledge and skills needed to successfully pursue or advance careers within nonprofit sector organizations.

Students in degree programs across campus such as urban studies, public administration, business, social welfare, education or the arts, have combined the Graduate Certificate in Nonprofit Management with their degree to further enhance their academic preparation for their particular career goals.

Application Deadlines
Applications are considered on a rolling admissions basis, although we suggest that a completed portfolio be submitted at least 6-8 weeks prior to the beginning of the starting semester.

Applicants should keep in mind that applications for various University fellowships are typically due in January. If you are planning to apply for Financial Aid (http://uwm.edu/onestop/contact/financial-aid), all application materials must be submitted by March 1 of each year.

Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
Students wishing to earn a Graduate Certificate in Nonprofit Management must complete the required 15 graduate credit hours. No student may complete all 15 credits within a single school or college. The curriculum consists of the following five courses:

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 718</td>
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<tr>
<td>BUSMGMT 721</td>
<td>Fundraising and Development for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NONPROF 725</td>
<td>Governance of Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>NONPROF 740</td>
<td>Executive Leadership of Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>NONPROF 705</td>
<td>Professionals and Volunteers in Nonprofit Organizations</td>
<td></td>
</tr>
<tr>
<td>NONPROF 795</td>
<td>Introduction to Nonprofit Revenue Streams and Portfolios</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15
Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count toward a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information
Phone: (414) 229-4732
dihreke@uwm.edu

http://uwm.edu/public-nonprofit-administration/graduate-programs/certificate/

Public Administration, MPA
(College of Letters and Science, Department of Public and Nonprofit Administration)

The College of Letters and Science and the Lubar School of Business offer and present jointly the Master of Public Administration (MPA).

The program is designed to provide theoretical and practical preparation for careers in public and non-profit administration with three areas of concentration: municipal management, general public administration, and non-profit management.

Application Deadlines
Applications are considered on a rolling admissions basis, although we suggest that a completed portfolio be submitted at least 6-8 weeks prior to the beginning of the starting semester.

Applicants should keep in mind that applications for various University fellowships are typically due in January. If you are planning to apply for Financial Aid (http://uwm.edu/onestop/contact/financial-aid), all application materials must be submitted by March 1 of each year.

Admission
An applicant must meet Graduate School requirements and hold a bachelor's degree from an accredited college or university to be considered for admission.

There are no fixed prerequisites in terms of prior academic training; but background in public administration, American governmental institutions, economics, statistics, and computer applications in social science is beneficial. Each student's academic preparation is evaluated at the time of application. A personal interview may be required.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

The MPA program requirements to be considered for admission are:
1. An undergraduate grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from persons familiar with applicant's academic ability and achievement.
3. Submission of scores on the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) or the Graduate Management Admission Test (GMAT) (http://uwm.edu/graduateschool/admission/#gmat).

Candidates seeking admission to the MPA/MUP program must apply to and be admitted to both programs. The requirements for admission to the MUP program are detailed in the Urban Planning section of this Bulletin.

Credits and Courses
The Master of Public Administration degree requires satisfactory completion of 39-42 credits of prescribed graduate study and appropriate coursework.

Minimum Grade Requirements in the Core Courses
In order to demonstrate mastery of the critical Core Course material, MPA students must achieve a grade point average of 3.0 in the six Core Courses, and, regardless of average, students must earn a grade of B- or better in each Core Course. If a grade of C+ or lower is earned in any Core Course, that course must be repeated in an effort to earn the minimum grade of B-. If the student's grade point average in the six Core Courses is below 3.0, the student must repeat one or more Core Courses in which a grade of lower than B was earned in an effort to establish a grade point average of 3.0 in the Core. (For purposes of this requirement, the grade point average for the Core Courses will be calculated on the basis of only
the highest grade earned; that is, the grade earned in the first attempt at a
Core Course will not be averaged with the grade earned in the repeat.)

Core Requirements
Students entering the MPA program will be placed, at the discretion of the
MPA Director, in one of two tracks (A or B) within the core. The minimum
degree requirement is 39 credits for Track A students and 42 credits for
Track B students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM/URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 921</td>
<td>Public Service Administrative Internship ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
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<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management:</td>
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<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
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</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
</tbody>
</table>

Tracks
Select Track A or B below 15-18

Capstone
PUB ADM 959 | Capstone Seminar in Public Administration ² | 3

Total Credits 39-42

¹ Waived for students with significant experience in the public or nonprofit sector; see Track A.
² Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

Track A
Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have the Government/Nonprofit Administrative Internship course (PUB ADM 921) waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

Track B
Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Every student must select and complete the requirements for one of the following three concentrations:

**Municipal Management**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>PUB ADM 730</td>
<td>Budgeting for Public Sector Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 965</td>
<td>Municipal Management</td>
<td>3</td>
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<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
<td>3</td>
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Select two of the following:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 441</td>
<td>Diversity in Organizations (if not used to satisfy seminar in organizational management requirement)</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 400</td>
<td>Ethics and Responsibility in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM/POL SCI 452</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 705</td>
<td>Government Public Relations and Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 914</td>
<td>Seminar in Intergovernmental Relations</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration:</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select at least 6 elective credits ³

Total Credits 18

³ Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

Other courses may be substituted with the approval of the MPA Director.

**General Public Administration**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 400</td>
<td>Ethics and Responsibility in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 452</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 705</td>
<td>Government Public Relations and Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 914</td>
<td>Seminar in Intergovernmental Relations</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 958</td>
<td>Seminar in Public Administration:</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select at least 6 elective credits ³

Total Credits 18

³ Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

**Nonprofit Organization and Management**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 766</td>
<td>Marketing for Nonprofit Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have the Government/Nonprofit Administrative Internship course (PUB ADM 921) waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

2 Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.
BUS ADM 724  Business Combinations and Governmental Accounting  3
NONPROF 789  Theory and Role of Nonprofit Organizations  3
PUB ADM 958  Seminar in Public Administration:  3

Electives
Select at least 6 elective credits  3

Total Credits  18

1 Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

Program Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

Thesis
Not required.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment. Students in the MPA/MUP program (see below) are allowed up to seven years to complete all requirements for both degrees.

Public Administration, MPA/Criminal Justice, MS
Both departments collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice.

Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice and the MPA program.

Credits and Courses
Students accepted into this MS/MPA program complete the following courses:

M.S. in Criminal Justice

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 773</td>
<td>Perspectives on Crime and the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Required

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:  3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managersatus</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 792</td>
<td>Decision-Making for Nonprofit and Public Organizations</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:  3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management:</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone

PUB ADM 959  Capstone Seminar in Public Administration  3

General Public Administration
Select three of the following:  9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 400</td>
<td>Ethics and Responsibility in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM/URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 750</td>
<td>Public Administration Risk and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM/POL SCI 914</td>
<td>Seminar in Intergovernment Relations</td>
<td>3</td>
</tr>
</tbody>
</table>
Seminar in Public Administration: PUB ADM 958
Municipal Management: PUB ADM 965

Concentration
Select 12 credits in CRM JST

Internship
PUB ADM 921 Public Service Administrative Internship

Total Credits 42

1 Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

2 An internship is mandatory for students with no public sector work experience.

Total Degree Credits for Master of Public Administration: 48-51 cr

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

Program Requirements

Time Limit
Students in the coordinated MS/MPA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Public Administration, MPA/Urban Planning, MUP

A coordinated degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently.

This program is intended to combine professional training in planning with applied administrative and managerial skills. The MPA/MUP requirements are described later in this section.

Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Credits and Courses
This program allows students to complete master’s degrees in Public Administration and in Urban Planning concurrently. The coordinated degree requires 42-45 credits of required courses and completion of a concentration in Public Administration (18 credits). However, because some courses completed for the core requirements of the MUP also may count toward the MPA concentration, students may complete the dual degree with a minimum of 54-57 credits. The total number of credits will depend on the student’s track and choice of concentration in public administration.

Required Courses in Urban Planning (27 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 701</td>
<td>Introduction to Land Use Planning</td>
<td>1</td>
</tr>
<tr>
<td>URBPLAN 702</td>
<td>Introduction to Planning Law</td>
<td>2</td>
</tr>
<tr>
<td>URBPLAN 711</td>
<td>Planning Theories and Practice</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 720</td>
<td>Urban Development Theory and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 721</td>
<td>Applied Planning Methods</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 740</td>
<td>Data Analysis Methods I</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 810</td>
<td>Planning Policy Analysis</td>
<td>6</td>
</tr>
<tr>
<td>URBPLAN 811</td>
<td>Applied Planning Workshop</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 751</td>
<td>Introduction to Urban Design and Physical Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 857</td>
<td>Urban Design as Public Policy</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 27

Required Courses in Public Administration (18 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 921</td>
<td>Public Service Administrative Internship</td>
<td>3</td>
</tr>
<tr>
<td>or URBPLAN 991</td>
<td>Legislative/Administrative Agency Internship</td>
<td></td>
</tr>
<tr>
<td>PUB ADM 959</td>
<td>Capstone Seminar in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one seminar in organizational management and leadership from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 732</td>
<td>Transforming Organizations</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18

1 The internship requirement will be waived for students with significant public sector work experience.

Concentration Requirement (18 credits)
Completion of all the requirements for one of the concentrations in Public Administration. A maximum of six credits of MUP core courses may be used as electives in the MPA concentrations.

Program Requirements

Comprehensive Exam
Completion of the comprehensive exam in Urban Planning is required. (See Urban Planning)
QUANTITATIVE SOCIAL DATA ANALYSIS, UNDERGRADUATE CERTIFICATE

Aki Roberts, Associate Professor of Sociology, Co-Coordinator, aki@uwm.edu
Thomas Holbrook, Wilder Crane Professor of Government, Political Science, Co-Coordinator, holbroot@uwm.edu

The Certificate in Quantitative Social Data Analysis is structured to ensure that students are exposed to a breadth of data analysis topics, including research methods, Geographical Information System (GIS), multiple regression, and advanced electives on a variety of quantitative topics in various social science fields, as well as software packages that are in common use by potential employers. The program is interdisciplinary in that it draws on courses from 9 departments (Africology, Anthropology, Communications, Criminal Justice, Economics, Geography, Psychology, Political Science, and Sociology) in social science-related fields, but it is intended to complement students’ social science degree with additional concrete quantitative skills in social data analysis. Different majors have distinctive emphases in the topics that are most central to their practice of quantitative research, so that methods courses in different fields will significantly differ in their content. Therefore, the choice of courses embodied in the certificate program will allow students to focus their training in their own field, while still ensuring a strong base of general knowledge.

Eligibility
The certificate is open to current UWM undergraduates, UWM bachelor’s degree holders, or graduates of other accredited four-year colleges; to be admitted to the certificate program, students must have a current overall GPA of 3.0 at UWM or their bachelor’s degree institution. Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

Requirements
To obtain the certificate, the student must obtain a grade of at least C in any course used to satisfy the certificate requirements, and a cumulative GPA of 3.0 over all courses used for the certificate. Twelve of the 15-18 required credits must be earned in residence at UWM. 9 of the credits must be on the 300-level or above. Courses for the certificate may not be taken on a credit/no credit basis.

Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

Students are required to take one course each from 5 areas:

1. Introductory statistics (3-4 credits);
2. Research methods (3-4 credits);
3. GIS (3 credits);
4. Multiple regression (3 credits); and
5. Electives (3-4 credits).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td>3-4</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Research Methods</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 301</td>
<td></td>
</tr>
<tr>
<td>COMMUN 370</td>
<td></td>
</tr>
<tr>
<td>POL SCI 203</td>
<td></td>
</tr>
<tr>
<td>PSYCH 325</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 361</td>
<td></td>
</tr>
<tr>
<td>CRM JST 662</td>
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<table>
<thead>
<tr>
<th>GIS</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ANTHRO 380</td>
<td></td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Multiple Regression</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 568</td>
<td></td>
</tr>
<tr>
<td>ECON 310</td>
<td></td>
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<tr>
<td>ECON 413</td>
<td></td>
</tr>
<tr>
<td>ECON 513</td>
<td></td>
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<tr>
<td>POL SCI 390</td>
<td></td>
</tr>
<tr>
<td>PSYCH 610</td>
<td></td>
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<tr>
<td>SOCIOL 461</td>
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</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 411</td>
<td>Economic Forecasting Methods</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
</tr>
<tr>
<td>GEOG 547</td>
<td>Spatial Analysis</td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
</tr>
<tr>
<td>PSYCH 510</td>
<td>Advanced Psychological Statistics</td>
</tr>
<tr>
<td>SOCIOL 452</td>
<td>Social Networks in Global Commerce</td>
</tr>
<tr>
<td>SOCIOL 472</td>
<td>Population and Society</td>
</tr>
</tbody>
</table>

1 Other courses not on this list but relevant to quantitative social data analysis may be accepted with the approval of the Certificate Program Coordinator. A student making such a request must submit syllabi from the courses involved to the coordinator.

Awarding the Certificate
Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate.
at the time of graduation. Students who already have a bachelor's degree will receive the certificate upon completion of the program requirements.
RELIGIOUS STUDIES

Meghan Murphy-Lee, PhD, Senior Lecturer, Director

The interdisciplinary major in religious studies draws on the resources of UWM faculty members with a teaching and research interest in religion. This program provides students with a broad humanistic background in religion and an opportunity to develop special concentrations in specific areas of interest. There is no sectarian program of instruction. Rather, faculty members bring to their teaching the special academic characteristics of their own scholarly disciplines, and majors in the program draw upon a wide sample of those academic traditions. Thus, such subjects as the history and philosophy of religion and religion in art and literature are included in this program. Students choose from courses that consider religion in a wide array of cultural and historical contexts around the globe, including Buddhist, Christian, Classical Greek and Roman, Hindu, Islamic, Jewish, African, and American Indian religions.

Religious studies serves students seeking a broadly humanistic program, those who are pursuing a wide range of pre-professional education programs, those anticipating teaching careers at the secondary or higher educational level, and those who will undertake further study for the religious ministry.

Programs
- Religious Studies, BA (p. 1738)
- Religious Studies, Minor (p. 1741)

Religious Studies Courses

RELIGST 101 Introduction to World Religions
3 cr. Undergraduate.
Basic concepts of world religions; broad overview of various religious traditions in ancient and modern configurations.
Prerequisites: none.
General Education Requirements: HU
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

RELIGST 106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy
3 cr. Undergraduate.
Anishinaabe philosophical and religious beliefs incorporating botanical knowledge.
Prerequisites: none.
Course Rules: AIS 106 & ReligSt 106 are jointly offered; they count as repeats of one another.
General Education Requirements: CD
Current Offerings: http://uwm.edu/schedule

RELIGST 192 First-Year Seminar:
3 cr. Undergraduate.
Specific humanities topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194).
General Education Requirements: HU
Last Taught: Fall 2010.
Current Offerings: http://uwm.edu/schedule

RELIGST 193 First-Year Seminar:
3 cr. Undergraduate.
Specific social science topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

RELIGST 199 Independent Study
1-3 cr. Undergraduate.
Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.
Prerequisites: 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

RELIGST 225 Society and Religion in the Ancient Mediterranean and Near East
3 cr. Undergraduate.
Using historical evidence (written texts, material remains) to examine religion and social organization in ancient Mesopotamia, Egypt, Israel/Canaan, Minoan Crete, Mycenaean and archaic Greece.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

RELIGST 250 Selected Topics in Religious Studies:
3 cr. Undergraduate.
Focus on a particular religion or religious issue.
Prerequisites: Retakable w/chg in topic to 9 cr max.
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

RELIGST 289 Internship in Religious Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

RELIGST 296 UROP Apprenticeship
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff.
Prerequisites: acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: One credit for 45 hours research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.
Current Offerings: http://uwm.edu/schedule

RELIGST 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Program
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2016, Fall 2012, Spring 2011.
Current Offerings: http://uwm.edu/schedule
RELIGST 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.
Prerequisites: none. Additional prereqs may be assigned to specific topic.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

RELIGST 309 Early Christianity
3 cr. Undergraduate.
The early Christian period: what people believed and why; how Christianity was understood, practiced, and integrated into people's lives. Emergence from, contact with other religious cultures.
Prerequisites: jr st.
Course Rules: No cr for students w/cr in Hist 370 w/same topic.
Current Offerings: http://uwm.edu/schedule

RELIGST 350 Advanced Topics in Religious Studies:
3 cr. Undergraduate.
Advanced study of a particular religion or religious issue.
Prerequisites: jr st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

RELIGST 351 Anthropological Theories of Religion
3 cr. Undergraduate.
Anthropological theories of religion covering magic and witchcraft, moral order, sacred and profane, alienation, capitalism, neurosis, ritual, fetishism, fundamentalism, conversion, sacrifice, and healing.
Prerequisites: jr st.
Course Rules: Anthro 351 & ReligSt 351 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

RELIGST 361 Russian and Slavic Folklore
3 cr. Undergraduate.
Folk beliefs of the past thousand years, including medieval folk epics, fairy tales, and legends; impact of ancient pagan beliefs on contemporary Slavic cultures. Counts as repeat of Russian 391 w/same topic. ReligSt 361 & Russian 361 are jointly offered; they count as repeats of one another. Prereq; jr st.
Prerequisites: General Education Requirements: HU, OWCB
Current Offerings: http://uwm.edu/schedule

RELIGST 395 Seminar in the Study of Religion: Theories of Religion
3 cr. Undergraduate.
Critical inquiry into the questions of and about religion: what is religion, and how do we study it?
Prerequisites: jr st.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

RELIGST 451 Religious Practices and Values in Local and Global Communities
3 cr. Undergraduate.
Religious practices and values of six major world religions are examined in order to promote understanding and cooperation within a diverse community.
Prerequisites: jr st.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

RELIGST 489 Internship in Religious Studies, Upper Division
1-6 cr. Undergraduate.
Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 2.50 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

RELIGST 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

RELIGST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

RELIGST 544 Religious Giving in Anthropological Perspective
3 cr. Undergraduate.
Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

RELIGST 545 Religious Giving in Anthropological Perspective
3 cr. Undergraduate.
Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

RELIGST 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

RELIGST 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

RELIGST 699 Advanced Independent Study
1-3 cr. Undergraduate.
Advanced level independent work under the supervision of ReligSt faculty or academic staff member.
Prerequisites: jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule
Religious Studies, BA

Religious studies is an interdisciplinary major that draws on courses from multiple departments to give students a broad understanding of the historical, cultural and philosophical principles of the world's religions, including Buddhism, Christianity, Classical Greek and Roman religions, Hinduism, Islam, Judaism, African and Native-American religions. These diverse belief systems are studied not just for their influence over past generations but also to better understand their role in modern issues.

UWM students in Religious Studies take courses in history, anthropology, philosophy, political science, classics, art history, literature, and more. Many students also complement their major with studies in the foreign language since many religions have traditions and foundations in another language.

Students will also find a very active student organization - the Religious Studies Student Organization. The group brings in speakers and engages with the local community on scholarly topics of interest.

Double Major

It often is possible to complete a double major in Religious Studies and another subject. This is the case particularly when a student already has undertaken the major in the other field but has credits in religion courses as well. The student often can take courses that count for both Religious Studies and the other major. Interested students should consult with the Program Director.

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>ENGLISH 102 College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 103 Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 105 Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 108 Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td><strong>Arts</strong></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td><strong>Social Sciences</strong></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td>Select 6 credits including one lab</td>
<td>6</td>
</tr>
<tr>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td>Complete Foreign Language Requirement through:</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
<tr>
<td><strong>UWM Cultural Diversity Requirement</strong></td>
<td>One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement</td>
<td></td>
</tr>
</tbody>
</table>

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

*Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.*

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:
1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways: 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD+/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed in one of the following ways: 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 9 credits in combination of the two options above.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### VI. Additional Requirements

Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

**Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

**Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.
VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Religious Studies Major Requirements
The religious studies major requires completion of at least 33 credits, including at least 18 in upper-division courses (numbered 300 and above) of which at least 15 must be taken in residence at UWM. In satisfying these requirements, students must select courses from at least three different curricular areas. The College requires that students attain at least a 2.500 GPA on all major credits attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. The required 33 credits must be distributed as follows:

<table>
<thead>
<tr>
<th>Core</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELIGST 101</td>
<td>Introduction to World Religions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELIGST 395</td>
</tr>
<tr>
<td>HIST 594</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Capstone Experience 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following research options: 3</td>
</tr>
<tr>
<td>HIST 600</td>
</tr>
</tbody>
</table>

For students with additional major(s), upper-level research seminar in the additional major that focuses on a religion-related topic

A 3-credit independent study on a religion-related topic

Senior thesis in another program/department on a religion-related topic

Research paper focused on a religion-related topic as approved by the director

<table>
<thead>
<tr>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 27 credits (see below) 27</td>
</tr>
<tr>
<td>Total Credits 33</td>
</tr>
</tbody>
</table>

1 In all cases, the religious studies director must approve the topic to satisfy the research requirement. Majors are required to file the appropriate research/capstone approval form prior to completion of their research/capstone course.

Electives
All majors are required to complete at least 27 additional credits beyond the core courses. Nine elective credits must be distributed among three different religious traditions. A religious tradition course must focus primarily (more than 50%) on one specific region. Twelve of these 27 credits must be numbered 300 or above. The list of approved electives is posted on the program’s website (http://uwm.edu/religiousstudies/undergraduate-programs/requirements).

Relevant language courses above the second semester will be counted as electives toward the Religious Studies major. Relevant languages depend on the student’s primary concentrations in religious studies but potentially include Arabic, Chinese, Japanese, Korean, Thai, Greek, Latin, Hebrew, German, Spanish, French, Italian, or other languages with approval of the director. Majors must file the appropriate forms with the director to receive approval for language courses.

Optional Concentration
Religious Studies majors have the option of focusing their programs of studies on one or more religious traditions. To discuss this option, please contact the Program Director.

Letters & Science Advising
The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus’ general education requirements and the College’s degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the “Declaration of Major” information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.
Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Senior Lecturer Meghan Murphy-lee, murphyle@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/religiousstudies/undergraduate-programs/

Religious Studies, Minor

Religious studies is an interdisciplinary major or minor that draws on courses from multiple departments to give students a broad understanding of the historical, cultural and philosophical principles of the world's religions, including Buddhism, Christianity, Classical Greek and Roman religions, Hinduism, Islam, Judaism, African and Native-American religions. These diverse belief systems are studied not just for their influence over past generations but also to better understand their role in modern issues.

Religious Studies is not just for students planning to go on to become a priest, rabbi or minister. The program provides excellent preparation for all careers that require critical thinking, logic, analysis and writing skills. Because of the breadth of the subject matter, students graduate with a global perspective, an appreciation for different viewpoints and substantive knowledge about ethics and core belief systems of the past and present.

UWM students in Religious Studies take courses in history, anthropology, philosophy, political science, classics, art history, literature, and more. Many students also complement their major with studies in the foreign language since many religions have traditions and foundations in another language.

Students will also find a very active student organization - the Religious Studies Student Organization. The group brings in speakers and engages with the local community on scholarly topics of interest.

Requirements
The minor requires 18 credits in approved Religious Studies courses, including at least 9 upper-division (numbered 300 and above) credits taken in residence at UWM. Students must complete coursework from at least two different curricular areas. In addition, the minor must include courses dealing with two different religious traditions. (RELIGST 101 may not be used in fulfilling this requirement.) The College requires that students earn at least a 2.500 GPA on all UWM courses attempted for the minor. A 2.500 GPA also is required on all minor credits attempted, including any transfer work.

Contact Information
Current Students contact Senior Lecturer Meghan Murphy-lee, murphyle@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/religiousstudies/undergraduate-programs/
SOCILOGY

Sociology is the study of patterns of social relations and how those patterns shape what people do and think. From community and conflict, family and inequality, social change and conformity, class and race, gender and work, few fields offer students such breadth in the study of the social world we all inhabit.

For undergraduates we offer an exciting array of classes, where students can study everything from human sexuality to the sociology of culture, from issues related to aging to pressing questions of inequality and poverty. Students have great opportunities to work closely with our faculty and teaching staff; our wide range of courses offers undergraduates both breadth and depth in their study of sociology.

For graduate students we offer an excellent Master's and PhD programs. Our MA program has long provided outstanding training as preparation for PhD programs or for work in non-profit organizations, businesses, and government agencies. Our PhD program offers advanced training, in general sociological theory and cutting edge methodologies for the analysis of social data, with particular emphasis on expertise in the analysis of social inequalities and social institutions.

Programs

- Sociology, BA (p. 1749)
- Sociology, MA (p. 1752)
- Sociology, Minor (p. 1754)
- Sociology, PhD (p. 1754)

Sociology Courses

SOCIOL 101 Introduction to Sociology
3 cr. Undergraduate.
Sociology as a special field of social science. The relationship of the work of the sociologist to contemporary society; an examination of the sociological perspective.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

SOCIOL 102 Solving Social Problems
3 cr. Undergraduate.
Examines problems relating to social inequality, troubled institutions, social control and social change. Explains how sociological theories can address these problems and improve communities.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SOCIOL 103 World Society
3 cr. Undergraduate.
Demographic and development trends related to political, economic, and eco-systems. Policy options and strategies regarding population growth, economic development, and selected institutional issues.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

SOCIOL 104 Introduction to Social Psychology
3 cr. Undergraduate.
An introduction to sociological social psychology, emphasizing such topics as the nature of self, identity, socialization, various aspects of social interaction, and dynamics of group behavior.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

SOCIOL 150 Multicultural America
3 cr. Undergraduate.
Prerequisites: none.
Course Rules: Cultures and Communities Prog; req'd service learning component.
General Education Requirements: SS, CD
Last Taught: Summer 2016, Summer 2015, Summer 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SOCIOL 193 First-Year Seminar
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

SOCIOL 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult dept chair.
Prerequisites: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

SOCIOL 200 Contemporary American Society
3 cr. Undergraduate.
The patterns of social life in the United States; cultural orientations, social structures, and dynamics of social change.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

SOCIOL 207 Work and Society
3 cr. Undergraduate.
The sociology of work; changes in the structure of work. Theory and research on work settings: occupations, professions, housework, work subterranean. The future of work.
Prerequisites: soph st or a Sociol 100-level course.
General Education Requirements: SS
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
<th>Prerequisites</th>
<th>General Education Requirements:</th>
<th>Last Taught:</th>
<th>Current Offerings:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 224</td>
<td>American Minority Groups</td>
<td>3</td>
<td>Undergraduate</td>
<td>Nature of minority-dominant group relations. Stability and change in status in American society of Blacks, Native Americans, Spanish-speaking peoples, and other minority groups.</td>
<td>soph st or a Sociol 100-level course.</td>
<td>SS, CD</td>
<td>Spring 2003.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 235</td>
<td>Social Change in the Global Economy</td>
<td>3</td>
<td>Undergraduate</td>
<td>Global nature of contemporary economic and social change; local dimensions of globalization, economic integration, dislocation, transnationalization, popular resistance, and blacklash.</td>
<td>soph st or any Sociol 100-level course.</td>
<td>SS</td>
<td>Fall 2017, Spring 2014, Fall 2013, Spring 2013.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 241</td>
<td>Criminology</td>
<td>3</td>
<td>Undergraduate</td>
<td>Analysis of competing perspectives on crime, with reference to the behavior of those who define, engage in, or become the victim of criminal behavior.</td>
<td>soph st or a Sociol 100-level course.</td>
<td>SS</td>
<td>Spring 2018, Fall 2017, Summer 2017, Spring 2017.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 246</td>
<td>Juvenile Delinquency</td>
<td>3</td>
<td>Undergraduate</td>
<td>Study of personal and social determinants of juvenile delinquency and agencies for its control, treatment, and prevention.</td>
<td>soph st or a Sociol 100-level course.</td>
<td>SS</td>
<td>Spring 2018, Fall 2017, Spring 2017, Fall 2016.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 248</td>
<td>Sociology of Education</td>
<td>3</td>
<td>Undergraduate</td>
<td>Social structure of the contemporary schooling system in the United States. Topics include social class membership and education outcomes; school desegregation; high school attrition.</td>
<td>soph st or a Sociol 100-level course.</td>
<td>SS</td>
<td>Spring 2018, Summer 2017, Spring 2017, Fall 2016.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 250</td>
<td>Sex and Gender</td>
<td>3</td>
<td>Undergraduate</td>
<td>The study of sexual inequality; changing work and family roles in industrialized societies; the social construction of gender; sociological understandings of sexual diversity.</td>
<td>soph st or a Sociol 100-level course.</td>
<td>SS</td>
<td>Spring 2018, Fall 2017, Summer 2017, Spring 2017.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 255</td>
<td>Sociology of Sexuality</td>
<td>3</td>
<td>Undergraduate</td>
<td>The social construction of sexuality, the social history of sexual arrangements, and contemporary sexual theory and practice.</td>
<td>soph st or a Sociol 100-level course.</td>
<td>SS</td>
<td>Spring 2018, Fall 2016, Spring 2015.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 260</td>
<td>Blood, Sex, Money, Power: Families and Intimate</td>
<td>3</td>
<td>Undergraduate</td>
<td>The social forces that shape inequality within, and the formation and maintenance of, marriage and other intimate relationships across diverse groups.</td>
<td></td>
<td></td>
<td>Spring 2017, Fall 2014, Fall 2013, Fall 2012.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
<td>Undergraduate</td>
<td>Introduction to basic statistical concepts and procedures and their selected application to sociological data. Covers both descriptive and inferential statistics.</td>
<td>soph st or Sociol 101(P); satisfaction of GER Quantitative Literacy Part A req.</td>
<td>QLB</td>
<td>Spring 2018, Fall 2017, Spring 2017, Fall 2016.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 282</td>
<td>Sociology of Aging</td>
<td>3</td>
<td>Undergraduate</td>
<td>Introduction to social gerontology; examination of the social dynamics and institutional contexts of aging in modern society.</td>
<td></td>
<td></td>
<td>Fall 2017, Spring 2016, Spring 2015, Fall 2012.</td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
<tr>
<td>SOCIOL 289</td>
<td>Internship in Sociology, Lower Division</td>
<td>1-6</td>
<td>Undergraduate</td>
<td>Application of basic principles of sociology in a business, organizational, educational, political or other appropriate setting.</td>
<td>intro course in Sociol; 2.25 gpa; cons supervising faculty member.</td>
<td></td>
<td></td>
<td><a href="http://uwm.edu/schedule">http://uwm.edu/schedule</a></td>
</tr>
</tbody>
</table>
**SOCIOL 290 International Migration:**
3 cr. Undergraduate.
Examines institutional, demographic, geo-political, and social psychological sources of human migration. Considers theories of and trends in migration with special focus on salient, current events.
**Prerequisites:** soph st or a Sociol 100-level course.
**Course Rules:** May not be retaken for cr.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 297 Study Abroad:**
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
**Prerequisites:** acceptance for Study Abroad Prog.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Summer 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 299 Ad Hoc:**
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
**Prerequisites:** none; add'l prereqs may be assigned to specific topic.
**Course Rules:** May be retaken w/chg in topic.
**Last Taught:** Fall 1995, Spring 1990, Fall 1989, Spring 1989.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 304 Political Sociology**
3 cr. Undergraduate.
Examination of structural and cultural factors as related to the nature of political systems; consideration of the organization and roles of political and para-political groups.
**Prerequisites:** jr st & any Sociol 100-level course.
**Last Taught:** Spring 2018, Spring 2017, Spring 2015, Fall 2005.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 305 Sociology of Sport**
3 cr. Undergraduate.
Social structure of sports in historic and contemporary contexts, with primary emphasis given to sports in the United States.
**Prerequisites:** jr st; any Sociol 100 or 200 level course.
**Last Taught:** Summer 2013, Summer 2012, Summer 2011, Summer 2010.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 307 Industrial Sociology**
3 cr. Undergraduate.
Industrial technological factors in community life; role of industrial workers, leaders, and organizations in the community; impact of industrialization on other institutions.
**Prerequisites:** jr st; a Sociol 100-level course.
**Last Taught:** Spring 2011, Fall 2010, Spring 2010, Fall 2009.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 308 Social Change in American Indian Societies**
3 cr. Undergraduate.
American Indian societal change studied from a combination of theoretical perspectives: examination of the variation in American Indian responses to Western political and economic impacts.
**Prerequisites:** jr st; any Sociol 100-level course or Sociol 224(P).
**Course Rules:** AIS 320 & Sociol 320 are jointly offered; they count as repeats of one another.
**General Education Requirements:** CD, SS
**Last Taught:** Fall 2011, Fall 2010, Fall 2009, Fall 2008.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 311 Contemporary Issues of the American Indian**
3 cr. Undergraduate.
Development of the institutional structure of American Indian affairs; current economic and social problems, contemporary manifestations of American Indian spirit, e.g. activism and cultural experiences.
**Prerequisites:** jr st; any Sociol 100-level course or Sociol 224(P).
**Course Rules:** AIS 321 & Sociol 321 are jointly offered; they count as repeats of one another.
**General Education Requirements:** CD, SS
**Last Taught:** Spring 2018, Spring 2011, Spring 2010, Spring 2009.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 312 Perspectives on Latino Communities**
3 cr. Undergraduate.
Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives. Emphasis on Chicanos, Cubans, and Puerto Ricans.
**Prerequisites:** jr st & any Sociol 100-level course or cons instr.
**Course Rules:** Latino 323 & Sociol 323 are jointly offered; they count as repeats of one another.
**General Education Requirements:** SS, CD
**Last Taught:** Fall 2017, Spring 2016, Spring 2015, Spring 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 313 Comparative Race Relations**
3 cr. Undergraduate.
Analysis of racial/ethnic relations in historical and cross-cultural perspective. Origin, persistence, adaptation, and change in patterns of race relations in various societies.
**Prerequisites:** jr st & Sociol 101(P) or 104(P).
**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 320 Social Change**
3 cr. Undergraduate.
Study of change in society; integration and various theories of social change; examination of contemporary instances of social change.
**Prerequisites:** jr st & any Sociol 100-level course.
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 322 The Social Organization of Technology: A Comparative Perspective**
3 cr. Undergraduate.
Explores technological innovation, the diffusion of technology into practice, the relationship of technology to science, work and the control of work.
**Prerequisites:** jr st; a 100-level Sociol course.
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Fall 2016.
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
**SOCIOL 330 Economy and Society**  
3 cr. Undergraduate.  
The sociological perspective applied to economic phenomena, including production, distribution, consumption, exchanges of goods, a country’s economic development, and global market.  
**Prerequisites:** jr st & Sociol 100-level course.  
**Last Taught:** Summer 2017, Fall 2016, Summer 2016, Spring 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 331 Sociology of Health Care**  
3 cr. Undergraduate.  
Cultural, social, and social-psychological factors in disease processes; distribution of disease; social definitions of illness; organization of health professions and health facilities.  
**Prerequisites:** jr st & Sociol 101(P) or 104(P).  
**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Fall 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 332 Small Groups**  
3 cr. Undergraduate.  
Defining structure and functions of the group. Developing understanding of group processes. Recognizing and defining leadership, cliques and factions.  
**Prerequisites:** jr st & any Sociol 100-level course.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 333 Social Class in Industrial Society**  
3 cr. Undergraduate.  
Comparative analysis of patterns of stratification in modern societies. Critical analysis of competing theories via examination of selected topics of theoretical significance.  
**Prerequisites:** jr st & any Sociol 100-level course.  
**Last Taught:** Fall 2016, Spring 2008, Fall 2006, Summer 2006.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 341 Sociology of Deviant Behavior**  
3 cr. Undergraduate.  
Analysis of the ways in which deviant behavior is socially constructed, individuals are labeled and stigmatized as deviants, and mechanisms of social control are activated or challenged.  
**Prerequisites:** jr st & any Sociol 100-level course.  
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 342 Sociology of Law**  
3 cr. Undergraduate.  
Examination of law as a social institution, the functions of law, evolution of legal systems, law and other social institutions, the legal profession.  
**Prerequisites:** jr st & Sociol 101(P) or 104(P).  
**Last Taught:** Spring 2018, Spring 2017, Fall 2016, Spring 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 343 Collective Behavior**  
3 cr. Undergraduate.  
Dynamic aspects of social and institutional change. The breakdown and transformation of the social system through cultural drift, collectivities, and social movements. Recruitment, ideology, and leadership.  
**Prerequisites:** jr st & Sociol 101(P) or 104(P).  
**Last Taught:** Spring 2017, Fall 2016, Spring 2015, Fall 2014.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 344 Research Methods in Sociology**  
3 cr. Undergraduate.  
Scientific methods in the analysis of society, procedures in problem definition, hypotheses/construction, and collection, and evaluation of data.  
**Prerequisites:** jr st; 9 cr Sociol, Sociol 261(P) or approved stats course.  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 345 History of Sociological Theory**  
3 cr. Undergraduate.  
Critical survey of ideas about society centered on thinkers up to the twentieth century.  
**Prerequisites:** jr st; 9 cr Sociol.  
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 346 Modern Sociological Theory**  
3 cr. Undergraduate.  
Major theoretical paradigms including functionalism, conflict and dialectical models, exchange theory, symbolic interactionism, and social phenomenology.  
**Prerequisites:** Sociol 375(P).  
**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 347 Urbanism and Urbanization**  
3 cr. Undergraduate.  
Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas.  
**Prerequisites:** jr st & a Sociol 100-level course; or Urb Std 250(P).  
**Course Rules:** Sociol 377 & Urb Std 377 are jointly-offered; they count as repeats of one another.  
**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 348 Honors Seminar**  
3 cr. Undergraduate.  
Selected topics in sociology  
**Prerequisites:** soph st; Honors 200(P); cons Honors College dir.  
**Course Rules:** May be retaken w/chg in topic to 9 cr max.  
**General Education Requirements:** SS  
**Last Taught:** Fall 2017, Fall 2010, Fall 2006, Spring 2004.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 350 Independent Study-Upper Division**  
1-3 cr. Undergraduate.  
Independent work in specific areas of sociology under supervision.  
**Prerequisites:** jr st; 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**SOCIOL 351 Sociology and Social Policy**  
3 cr. Undergraduate.  
Examination of the uses of sociological theory and research in the formulation, implementation, and evaluation of social policy.  
**Prerequisites:** jr st; any Sociol 100-level course.  
**Last Taught:** Spring 2013, Spring 2012.  
**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
SOCIOL 423 Latino Immigration and Incorporation:
3 cr. Undergraduate/Graduate.
Latino institutional, geo-political, demographic, comparative, and social
network theoretical perspectives on migration to and incorporation into
the United States.
Prerequisites: jr st; 3 cr in Sociol at 200-level or above or cons instr; addl
prereqs may be assigned for specific topics.
Course Rules: May be retaken w/chg in topic to 6 cr max. Latino 423 &
Sociol 423 are jointly offered; w/same topic, they count as repeats of one
another.
Current Offerings: http://uwm.edu/schedule

SOCIOL 440 Sociology of the Family
3 cr. Undergraduate/Graduate.
Family patterns and ideologies in relation to broader social structure and
culture, sources of variety and change in household, family, and kinship
organization.
Prerequisites: jr st; 6 cr in Sociol at 200-level or above.
Current Offerings: http://uwm.edu/schedule

SOCIOL 442 The Work-Family Intersection
3 cr. Undergraduate/Graduate.
Social forces shaping work and family patterns and ideologies;
implications of social change for employers, workers, and families; survey
of work-family policies.
Prerequisites: jr st; 6 cr 200-level or above Sociol.
Course Rules: No cr for students w/cr in Sociol 495 w/similar topic.
Last Taught: Fall 2016, Fall 2014, Spring 2012.
Current Offerings: http://uwm.edu/schedule

SOCIOL 443 Organizations, Occupations, and Professions
3 cr. Undergraduate/Graduate.
Development of occupations and professions in industrial societies.
Study of professional concepts, ethical codes, work norms, specialization,
recruitment, education, and work roles in an organizational context.
Prerequisites: jr st & Sociol 101(P) or 104(P); or grad st.
Current Offerings: http://uwm.edu/schedule

SOCIOL 444 Sociology of the Body
3 cr. Undergraduate/Graduate.
How the body is shaped by social forces. Relationship between the body,
identity, and culture, focusing on gender, race/ethnicity, and disability.
Prerequisites: jr st & any Sociol course; or grad st.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

SOCIOL 448 Sociology of Children and Adolescents
3 cr. Undergraduate/Graduate.
Theoretical perspectives and research methods addressing substantive
issues in children's and adolescents' lives, including peer cultures,
schooling, families, gender, race, class, health, and work.
Prerequisites: jr st & any Sociol course; or grad st.
Current Offerings: http://uwm.edu/schedule

SOCIOL 450 Environmental Sociology
3 cr. Undergraduate.
Sociological analysis of the interaction between humans, their artifacts,
and the natural environment.
Prerequisites: jr st & Sociol 101(P).
Last Taught: Fall 2016, Spring 2015, Spring 2014, Fall 2012.
Current Offerings: http://uwm.edu/schedule

SOCIOL 452 Social Networks in Global Commerce
3 cr. Undergraduate.
Social networks that connect business people and companies; how
networks mediate activities in a global economy; how networks are
shaped by national culture and institutions.
Prerequisites: jr st, Sociol 261(P) or approved stats course; or grad st.
Last Taught: Spring 2014.
Current Offerings: http://uwm.edu/schedule

SOCIOL 461 Social Data Analysis Using Regression
3 cr. Undergraduate/Graduate.
Advanced practical training in multivariate regression using real, large
datasets (surveys, census data, etc.); how multiple independent variables
influence a dependent variable. No cr for students w/cr in Sociol 499 with
similar topic.
Prerequisites: jr st, Sociol 261(P) or approved stats course; or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOCIOL 472 Population and Society
3 cr. Undergraduate/Graduate.
Concepts and methodology of demographic analysis. Nature and
framework of population theories and research. Consideration of the
social and economic determinants and consequences of trends in
mortality, fertility, and migration.
Prerequisites: jr st; 9 cr in Sociol at 200-level or above.
Current Offerings: http://uwm.edu/schedule

SOCIOL 476 Sociology of International Public Health
3 cr. Undergraduate/Graduate.
Social, economic, and political factors that influence inequality in health
at the global level; interacting influence of micro and macro forces on
public health.
Prerequisites: jr st; 9 cr in Sociol at 200-level or above; or grad st.
Last Taught: Spring 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SOCIOL 489 Internship in Sociology, Upper Division
3 cr. Undergraduate.
Application of advanced principles of sociology in a business,
organization, educational, political or other appropriate setting; includes
course work and 120 hrs field work.
Prerequisites: jr st; declared Sociol major or minor; Sociol 361(P); 2.75
GPA; cons supervising faculty member.
Current Offerings: http://uwm.edu/schedule
SOCIOL 493 Capstone Seminar in Sociology
3 cr. Undergraduate.
Summary and integration of ideas from diverse Sociology courses. For Sociol majors in their last year of study.
Prerequisites: sr st; declared Sociol major; grade of C or better in English 102(P) or score at level 4 on EPT.
Current Offerings: http://uwm.edu/schedule

SOCIOL 495 Seminar in Sociology:
3 cr. Undergraduate/Graduate.
Intensive study in a selected area of Sociology. Designed to encourage discussion, debate, and critical thinking.
Prerequisites: jr st; 6 cr 200-level or above Sociol or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2012, Spring 2011, Spring 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

SOCIOL 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Spring 2016.
Current Offerings: http://uwm.edu/schedule

SOCIOL 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Fall 2007, Fall 2004, UWinteriM 2003.
Current Offerings: http://uwm.edu/schedule

SOCIOL 610 Reproduction of Minority Communities
3 cr. Undergraduate/Graduate.
Analysis of the social, economic, and cultural forces behind the formation and reproduction of minority and disadvantaged communities in the United States.
Prerequisites: jr st; any Sociol 100-level course.
Course Rules: Jointly-offered w/ & counts as repeat of Ed Pol 610.
Current Offerings: http://uwm.edu/schedule

SOCIOL 697 Organizational Admin Capstone
3 cr. Undergraduate.
Internship, case analysis, or independent study that synthesizes course work in graded paper.
Prerequisites: sr st; declared org adm major; satisfaction of GER English Composition competency req; cons instr.
Course Rules: Commun 697, Econ 697, & Sociol 697 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

SOCIOL 701 Professional Seminar
1 cr. Graduate.
Fundamentals of academic and sociological reading, writing, and thinking. Orientation to graduate study, the sociological profession, and the tools of sociological research.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOCIOL 704 Seminar in Nonprofit Organizations
3 cr. Graduate.
Overview of structure, functions, and governance of nonprofit organizations. Comparison with government and for-profit organizations.
Prerequisites: grad st.
Course Rules: Nonprof 704, Pol Sci 704, Sociol 704, & Urb Std 704 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

SOCIOL 715 Systematic Sociological Theory
3 cr. Graduate.
A general examination of sociological theories, their construction, problems of conceptualization, and methodological requirements.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOCIOL 750 Research Methods in Sociology
3 cr. Graduate.
Application of scientific methods to the analysis of social phenomena, methodological orientations in sociology, types of research procedure, and nature of sociological variables.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOCIOL 752 Fundamentals of Survey Methodology
3 cr. Graduate.
Seminar in the principles of survey design that are the basis of standard practices in the field of sociology.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SOCIOL 754 Questionnaire Design
3 cr. Graduate.
Seminar in the design, evaluation, pretesting, ordering, and formatting of questions and questionnaires.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SOCIOL 760 Advanced Statistical Methods in Sociology
3 cr. Graduate.
Prerequisites: grad st; score of 85 on dept diagnostic examination.
Current Offerings: http://uwm.edu/schedule
SOICOL 790 Master's Level Thesis/Paper
1-6 cr. Graduate.
Research or thesis/paper work for students in the master's program in sociology.
Prerequisites: grad st; cons instr
Current Offerings: http://uwm.edu/schedule

SOICOL 794 Proseminar: The Teaching of Undergraduate Sociology
1 cr. Graduate.
Designed to prepare and support new teachers of undergraduate Sociology.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SOICOL 799 Master's Level Reading and Research
1-3 cr. Graduate.
Independent study of a topic selected by a student after consultation with member of graduate faculty.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

SOICOL 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

SOICOL 901 Seminar: Urban Social Structure
3 cr. Graduate.
Comprehensive analysis of the emergence and institutionalization of cultural and social patterns in urban settings; and future American urban social structures.
Prerequisites: grad st.
Course Rules: Sociol 901 & Urb Std 901 are jointly-offered & count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

SOICOL 910 The Sociology of Inequality
3 cr. Graduate.
Social, economic, cultural, and political forces behind the formation and reproduction of social inequalities in the United States.
Prerequisites: grad st.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SOICOL 911 The Sociology of Institutions
3 cr. Graduate.
Social institutions as a foundational sociological concept. Theory and research on institutional emergence, persistence, and change.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

SOICOL 920 Seminar in Race and Ethnic Relations
3 cr. Graduate.
Patterns of racial and ethnic differentiation and how they originate and change over time.
Prerequisites: grad st.
Last Taught: Fall 2013, Fall 2010, Fall 2003, Fall 2000.
Current Offerings: http://uwm.edu/schedule

SOICOL 923 Seminar on the Sociology of Culture
3 cr. Graduate.
Selected themes in the sociology of culture, including symbols, language, forms of knowledge, power and practice, the arts, and media.
Prerequisites: grad st
Course Rules: No cr for students w/cr in Sociol 927 w/same title.
Current Offerings: http://uwm.edu/schedule

SOICOL 927 Seminar in Sociology of Contemporary Institutions:
3 cr. Graduate.
Analysis of major social institutions in modern societies in terms of status orders, division of labor, normative systems, processes of social change, and conflict. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic & cons adviser to 9 cr max.
Last Taught: Fall 2017, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

SOICOL 928 Seminar in Social Organization:
3 cr. Graduate.
Study of conceptual approaches used in analyzing social organization: social stratification, complex organization, urbanization, small groups in mass society. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic & cons advisor to 9 cr max.
Last Taught: Fall 2017, Spring 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SOICOL 940 Applied Gerontology Capstone I
2 cr. Graduate.
Professional socialization seminar emphasizing the interdisciplinary nature of gerontology and exposing students to professional and library resources for continuing professional development.
Prerequisites: grad st; Nurs 760(P) & Soc Wrk 851(P).
Course Rules: Sociol 940 and Soc Wrk 940 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2008, Fall 2007, Fall 2005.
Current Offerings: http://uwm.edu/schedule

SOICOL 941 Applied Gerontology Capstone II
2-3 cr. Graduate.
Teamwork applied research project conducted in collaboration with a community-based organization that serves the elderly; presentation of findings to a professional audience.
Prerequisites: grad st; Sociol or Soc Wrk 940(P).
Course Rules: Sociol 941 and Soc Wrk 941 are jointly offered; they count as repeats of one another. Students who intend to prepare a manuscript for publication enroll for 3 crs; all others enroll for 2 crs.
Current Offerings: http://uwm.edu/schedule
Sociology, BA

The field of Sociology aims to understand human actions - how they influence and shape society and how society collectively influences and shapes human behavior. Sociological theory can touch on almost every topic conceivable because everything involves people: personal relationships, workplace structure, the communities where we live, social movements, the global reach of media and business, and more.

Everyone is part of a society, be it your local community, your ethnic group, your religious organization, your State, a sports team, or many other types of groupings. The Sociology major at UWM offers students a chance to better understand the world at large, and more specifically the people within it. Students explore the causes and consequences of human behavior including topics such as crime, population shifts, housing patterns, racism, gender, the legal system, organized sports, political beliefs, family structure, workplace organization, urban gardening, and more.

UWM students in Sociology can customize their major. Beyond the core courses that all majors take, students have many electives to choose from, and they can take a broad array of courses or become more specialized by choosing electives focused around particular topics of interest. Our graduates are known for their strong knowledge of the field as well as exceptional technical skills that are highly desirable. Sociology is a social science and relies on data, statistics and research to form theories and draw conclusions. Students in UWM’s Sociology program learn how to process, analyze and synthesize large volumes of information in a logical and consistent manner using the latest software
tools, a skill that has gotten them noticed by employers from all types of businesses who rely on data to make business decisions.

Sociology is also one of our majors available entirely online for students that wish to earn their degree from a distance. All classes required for the major can be taken online, or students can mix-and-match and take a some online and some traditional classes.

Requirements
Course of Study — Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td>Quantitative Literacy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent course</td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Social Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>UWM Foreign Language Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two years (high school) of a single foreign language</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Two semesters (college) of a single foreign language
Or equivalent

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
</tbody>
</table>
requirement.

Diversity (CD/+) designation, L&S students must complete the Breadth (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity requirement.

3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD) designation; no more than 6 credits from a single curricular area.

** Natural Sciences
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.

** Cultural Diversity
Complete 3 credits in a course with Cultural Diversity (CD) designation.

* Students should check their course selections carefully with the list of approved L&S Breadth Courses (p. 1178). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

** Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0-18</td>
</tr>
</tbody>
</table>

Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)

Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Completed in one of the following ways: 1

Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+ designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Arts
Select 3 credits

Humanities
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area.

Social Sciences

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Sociology Major Requirements
Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work.

The major in sociology requires a minimum of 30 credits including the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
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</tbody>
</table>

Required

SOCIOL 261 Introduction to Statistical Thinking in Sociology 1

SOCIOL 361 Research Methods in Sociology (satisfies L&S research requirement)

SOCIOL 375 History of Sociological Theory

SOCIOL 376 Modern Sociological Theory

Additional Requirements
Select 18 additional credits

Total Credits

30
1 With the approval of the undergraduate advisor, students who have completed an elementary statistics course in another discipline may be exempted from the SOCIOL 261 requirement.

At least 15 credits must be in upper-division (300 level and above) sociology courses taken in residence at UWM.

Majors who began their undergraduate studies between 1998-99 and summer 2006 may need to complete different requirements. Please contact the Sociology Department for further information.

Students in the Schools of Education and Social Welfare should consult their programs regarding social science requirements.

Sociology courses often are cross-listed with several certificate programs and interdepartmental majors.

**Declare Your Sociology Major with a Faculty Advisor**

Students wishing to declare a Sociology major may do so in-person or on-line. For more information, please visit this page (http://uwm.edu/sociology/undergraduate/declare-major-minor).

**Letters & Science Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science-advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmiwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a.uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the Major**

Sociology majors who have maintained at least a 3.00 GPA overall, a 3.50 GPA in all courses attempted for the major, and a 3.50 in all advanced-level (numbered 300 and above) courses attempted for the major are awarded the distinction "Honors in the Major" when they graduate. An "Honors in the Major" notation will appear on the student's transcript.

**Sociology Honor Society & Awards**

In addition, majors and minors who maintained at least a 3.00 GPA overall and a 3.30 GPA in courses taken for the major are invited to join Alpha Kappa Delta, the International Sociology Honor Society. Sociology faculty members annually select academically talented majors or minors for both the "Distinguished Scholar Award" as well as the "Joan W. Moore Service Scholar Award." Both awards are presented to an accomplished junior or senior in the major or minor each spring at the department's award ceremony.

**Honors in the College of Letters and Science**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.50 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits:
- Cum Laude - 3.500 or above
- Magna Cum Laude - 3.650 or above
- Summa Cum Laude - 3.800 or above

**Contact Information**

Current Students contact the Department directly, sociology@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

https://uwm.edu/sociology/undergraduate/

**Sociology, MA**

The Master of Arts (MA) Degree Program in Sociology at the University of Wisconsin-Milwaukee offers a flexible and varied program of study to students who wish to specialize in one of the discipline's subfields. The program provides students with balanced and comprehensive training
in sociological theory, research methodology and social statistics, which will prepare students for a variety of careers as well as continued study leading to the PhD degree.

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

New graduate students are admitted to the MA Program in Sociology only for the fall semester. Completed applications should be received by the department no later than January 10th of the year the applicant intends to start.

All applicants must meet the UWM Graduate School’s requirements for admission to the MA program in Sociology. In addition, applicants to the MA program must:

1. Provide three letters of recommendation from persons, preferably faculty, familiar with the applicant's scholastic achievement and potential.
2. Submit a sample of scholarly writing, a minimum of five pages in length.

**Financial Aid**

The major source of financial assistance for graduate students in sociology is employment as a teaching assistant. Assistantships are awarded every academic year on a competitive basis and may be renewed for an additional year; they include a stipend, full tuition remission and eligibility for low-cost health insurance. To apply for a teaching assistantship, students should complete a Teaching Assistantship Interest Form and submit it to the Director of Graduate Studies. The deadline for receipt of that form is January 10th.

Graduate students also are eligible for fellowships awarded by the Graduate School on a competitive basis. Additional information on the types and availability of fellowships may be obtained directly from the Graduate School.

**Advising Procedures**

Upon admission, the Director of Graduate Studies will serve as the student's advisor. An initial advisor will be assigned in the student's first semester in residence. The initial advisor assists students in planning their course programs, and in scheduling other degree requirements.

When the MA student begins to formulate a topic for a thesis, a master's paper, or MA examination, the student selects a member of the Sociology Graduate Faculty as her/his committee chair. This person then becomes the student's main curriculum advisor for the remainder of the time in the program.

**Credits and Courses**

The MA in Sociology requires a minimum of 30 graduate credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 715</td>
<td>Systematic Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 750</td>
<td>Research Methods in Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 760</td>
<td>Advanced Statistical Methods in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a 900-level sociology seminar course 3

**Electives**

Select 17 elective credits in consultation with advisor 17

Total Credits 30

Up to five credits of SOCIOL 790, may be taken by students who elect the thesis/paper capstone option.

With permission of the student's advisor, up to six graduate credits may be taken outside the department in courses related to the individual's plan of study. No more than six credits of undergraduate/graduate courses (excluding those previously taken as an undergraduate), taken at the graduate level, may be applied toward meeting degree requirements. No more than six credits in SOCIOL 799 may count toward the degree.

**Good Standing**

To retain good standing in the Department of Sociology, an enrolled graduate student must maintain a minimum 3.0 cumulative GPA and demonstrate progress toward completion of the course and/or thesis requirements each semester.

**Thesis, Master's Paper, or the MA Examination Options**

The student must write and defend an acceptable thesis, a master’s paper, or write an examination in fulfillment of the requirements for the Master of Arts degree in Sociology.

**Thesis or Master's Paper**

The thesis or master’s paper is intended to be a relatively limited research exercise, focused on a manageable topic. It does not necessarily have to involve original research. It is completed through enrollment in SOCIOL 790. Acceptable thesis or master's paper options include, but are not limited to, collection of data for hypothesis testing or exploratory research, secondary analysis of available data, theoretical critique, conceptual analysis and library research on a clearly defined problem. In general, students are encouraged to utilize existing data rather than collect new data unless they are confident that they have adequate resources (including time) to collect data sufficient for their purposes.

By the end of the third semester, students should complete a proposal for the MA thesis or paper. The proposal will reflect the formulation of a research problem and the development of a plan for its empirical investigation. Once a proposal is successfully defended, it constitutes an agreement between the student and the MA committee.

Students must prepare the thesis or master's paper under the direction of their committee, receive approval that it meets professional standards, and defend it at an oral examination. The master's paper is normally the length of a journal article (about 30 pp.). Students who choose to write a thesis should consult the Graduate School Thesis and Dissertation Formatting (http://uwm.edu/graduateschool/thesis-dissertation-formatting) page. The thesis must be prepared according to these format requirements.
MA Examination

The Master of Arts examination option is based on a bibliography developed by the student in consultation with his/her committee. The bibliography will represent both classical statements and recent debates in at least one area of sociological specialization. Students are encouraged to develop the bibliography by the end of the third semester of residence.

The examination itself will be a set of three questions developed by the MA committee, from which the student must choose two. The student will have two weeks to write a take-home examination. The advisor and two other faculty members will grade the examination. Within two weeks of the completion of the written examination, there will be an oral examination on the same material.

Time Limit

The student must complete all degree requirements within five years of initial enrollment.

Sociology, Minor

The field of Sociology aims to understand human actions - how they influence and shape society and how society collectively influences and shapes human behavior. Sociological theory can touch on almost every topic conceivable because everything involves people: personal relationships, workplace structure, the communities where we live, social movements, the global reach of media and business, and more.

Everyone is part of a society, be it your local community, your ethnic group, your religious organization, your State, a sports team, or many other types of groupings. The Sociology minor at UWM offers students a chance to better understand the world at large, and more specifically the people within it. Students explore the causes and consequences of human behavior including topics such as crime, population shifts, housing patterns, racism, gender, the legal system, organized sports, political beliefs, family structure, workplace organization, urban gardening, and more.

UWM students in Sociology can customize their minor. Beyond the core courses that everyone takes, students have many electives to choose from, and they can take a broad array of courses or become more specialized by choosing electives focused around particular topics of interest. Sociology is a social science and relies on data, statistics and research to form theories and draw conclusions. Students in UWM’s Sociology program learn how to process, analyze and synthesize large volumes of information in a logical and consistent manner using the latest software tools, a skill that has gotten them noticed by employers from all types of businesses who rely on data to make business decisions.

The Sociology minor is available entirely online for students that wish to earn their degree from a distance. All classes required for the minor can be taken online, or students can mix-and-match and take a some online and some traditional classes.

Requirements

Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

The minor in sociology requires 18 credits distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 261</td>
<td>Introduction to Statistical Thinking in Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 361</td>
<td>Research Methods in Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 375</td>
<td>History of Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select any two additional sociology courses at the 300 level or above (minimum 6 credits)</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>Select 3 credits of SOCIOL at any level</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>18</td>
</tr>
</tbody>
</table>

1. With the approval of the undergraduate advisor, minors may substitute an elementary statistics course from another discipline for the SOCIOL 261 requirement.
2. Those who have completed a methods course in a related discipline may be exempted from the SOCIOL 361 requirement, with the approval of the undergraduate advisor. Students who receive exemption from SOCIOL 361 must take an additional upper-division Sociol course for the minor.

Declare Your Sociology Minor with a Faculty Advisor

http://uwm.edu/sociology/undergraduate/declare-major-minor/

Contact Information

Current Students contact the Department directly, sociology@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at
(414) 229-7711 or let-sci@uwm.edu
https://uwm.edu/sociology/undergraduate/

Sociology, PhD

The Doctor of Philosophy in Sociology provides study and training for entry into academic and professional careers that would require theory-driven basic or applied research on social issues and phenomena. The program develops student expertise in general sociological theory and advanced methodologies for the analysis of social data, with particular emphasis on expertise in the analysis of social inequalities and social institutions.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

New graduate students are admitted to the PhD Program in Sociology only for the fall semester. Completed applications should be received by the department no later than January 10th of the year the applicant intends to start.
An applicant must meet the UWM Graduate School's requirements for admission to the PhD program in Sociology. In addition, applicants to the PhD program must:

1. Possess a master's degree in Sociology or be in the process of completing a master's degree at the time of application, with the expectation of completion of the degree prior to beginning the PhD program.
   a. Students without a master's degree in sociology are eligible for admission to the PhD program if:
      i. they have a bachelor's degree in sociology or a related field and they show exceptional preparation for graduate school or
      ii. they have a master's degree in a closely related field.
   b. In addition to the requirements for the PhD, all students must
      i. complete the required courses for the master's degree in sociology or comparable courses from other institutions and
      ii. earn or transfer 24 credits in graduate-level work in sociology or a closely related field. If fewer than 24 credits are ruled acceptable for the doctoral program, the student will have to make up those credits.
2. Submit a copy of the applicant's MA thesis or paper, or, if an applicant did not complete a thesis, a scholarly writing sample of original sociological research.
3. Provide three letters of recommendation from persons, preferably faculty, familiar with the applicant's scholastic achievement and potential.
4. Submit a cogent personal statement detailing the individual's reasons for pursuing doctoral study in Sociology.
5. Submit GRE (http://uwm.edu/graduateschool/admission/#gre) scores taken within the last five years.

**Financial Support**
The major source of financial assistance for graduate students in sociology is employment as a teaching assistant. Assistantships are granted every academic year on a competitive basis and may be renewed for an additional three years and include a stipend, full tuition remission and eligibility for low-cost health insurance. To apply for a teaching assistantship, students should complete a Teaching Assistantship Interest Form and submit it to the Director of Graduate Studies. The deadline for receipt of that form is January 10th.

Graduate students also are eligible for fellowships awarded by the Graduate School on a competitive basis. Additional information on the types and availability of fellowships may be obtained directly from the Graduate School.

**Reappplication/Readmission**
Students who receive the MA in Sociology from UWM must reapply to be considered for admission into the PhD program.

**Major Professor or Advisor**
Each new student will be assigned an initial advisor from among the department's faculty. By the second year in the program, students will be expected to select their own major advisor and, in consultation with this advisor, a committee for preliminary examinations and the dissertation. The major advisor for each student, assisted by the student's dissertation committee and the director of graduate studies, will take primary responsibility for guiding the student successfully through the program and into the labor market and career opportunities.

**Credits and Courses**
The program will require 36 graduate credits of coursework at the post-master's level. We expect entering students to have completed the following courses or their equivalents in the process of earning a master's degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 715</td>
<td>Systematic Sociological Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 750</td>
<td>Research Methods in Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 760</td>
<td>Advanced Statistical Methods in Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who have not taken these courses prior to admission to the PhD program will be required to complete them in the first year of their pursuit of a doctoral degree. Credits earned in these courses will not count as part of the 36 credits required at the post-master's level.

At the PhD level, students must complete the following coursework:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIOL 910</td>
<td>The Sociology of Inequality</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 911</td>
<td>The Sociology of Institutions</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 982</td>
<td>Advanced Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one additional elective course in social science methodology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Inequalities</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Social Institutions</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Select at least 9 elective credits</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select up to 6 dissertation credits</td>
<td>6</td>
</tr>
<tr>
<td>Additional Requirement</td>
<td>Ph.D. students with Teaching Assistant positions must complete the following 1 credit course (which is offered each spring):</td>
<td>0-1</td>
</tr>
<tr>
<td></td>
<td>SOCIOL 794 Proseminar: The Teaching of Undergraduate Sociology</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

|                | 36-37 |

Doctoral students may not accumulate more than 6 credits in U/G courses nor more than 6 credits of independent study without the approval of the Sociology Director of Graduate Studies. Of the 60 required credits, no more than 12 credits outside of Sociology may be counted toward the doctoral degree without the approval of the Sociology Director of Graduate Studies.

**Foreign Language or Specialized Skill**
This requirement may be satisfied by demonstrating one of the following:

- Proficiency in a foreign language useful in the student's career, indicated by the completion of two courses at the upper division level (numbered 300 and above or requiring junior standing) with at least a B average. Credits satisfying this requirement will not count toward the credits required for the PhD degree.
- Proficiency in mathematical, statistical, or computer skills. Completion of the required methods and statistics sequence
Preliminary Examination

All doctoral students are required to complete preliminary examinations in two specialty areas after completing 27 credits at the post-master’s level. The areas are selected by the doctoral candidate in consultation with the student’s advisor and other members of the graduate faculty. Examination areas are limited to those subfields or subdisciplines that are within the student’s area of specialization and widely recognized areas within sociology. The disciplinary subfields must be broader than, but related to, the focus of the student’s dissertation and must be approved by the Department’s Graduate Studies Committee. Examinations will consist of the student answering three or more questions from a list containing at least five, as determined by the student's committee. Candidates write their answers on one full day in September and March.

An empirical or substantive paper may be substituted for one preliminary examination. The empirical paper is read and evaluated by two members of the graduate faculty in sociology, in addition to the student’s major professor. The length and quality of the paper should be similar to that of a journal article. Students should use the format for the journal to which they would like to submit the paper. The paper also may be in the style of a full length Annual Review of Sociology piece or similar article.

Students who do not pass an examination on the first attempt will be provided feedback on their performance and be allowed to take the exam a second time but must do so within 9 months of the administration of the first exam. Students who do not complete the examination successfully upon the second attempt will not be allowed to continue in the program.

Dissertation

The dissertation is a major piece of original research representing a substantial contribution to sociological scholarship. In order to become eligible for dissertation status the student must complete a successful oral defense of a dissertation proposal before the student’s doctoral committee.

The dissertation itself, under the supervision of the major professor and in collaboration with a dissertation committee, must demonstrate the ability of the candidate to formulate a research topic and pursue an independent and original research representing a substantial contribution to sociological scholarship. The practices necessary for completion of the dissertation will conform to the guidelines established by the UWM Graduate School. The dissertation committee shall be composed of the major professor and three additional graduate faculty members (at least two of whom must be from the UWM Department of Sociology graduate faculty). The dissertation committee is responsible for assessing the dissertation project, which involves approving the dissertation proposal, reviewing working drafts of research in progress, and, finally, evaluating the candidate’s ability to defend decisions made during the course of research and the results of the research. After submission of a reading copy of the dissertation to the faculty dissertation committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate's oral remarks, the dissertation committee will vote on passing the candidate’s dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

Time Limit

All components of the PhD program must be completed within 10 years of matriculation.
SPANISH AND PORTUGUESE

Through effective communicative instruction, we prepare students to read, speak, write, and understand Spanish and Portuguese. Our course offerings reflect and respond to the diversity of our students, who include: heritage speakers, non-traditional students, professionals in a variety of fields, as well as traditional students. We encourage students to participate in study abroad programs and second-language activities as a means of improving proficiency.

Faculty are actively engaged in advancing knowledge in their respective areas of expertise and striving to link, in the manner most beneficial for students, critical and scholarly work to classroom instruction and advising activities.

We assume a leadership role in disseminating Hispanic, U.S. Latino, and Luso-Brazilian culture, not only to the campus community but to the Milwaukee area and the state of Wisconsin as well.

Programs

• Business Spanish, Minor (p. 1766)
• Portuguese, Minor (p. 1766)
• Spanish for Health Professionals, Undergraduate Certificate (p. 1767)
• Spanish, BA (p. 1768)
• Spanish, MA (p. 1772)
• Spanish, Minor (p. 1773)

Portuguese Courses

PORTUGS 103 First-Semester Portuguese
4 cr. Undergraduate.
Beginner-level Portuguese; listening, speaking, reading, writing, and grammar.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PORTUGS 104 Second-Semester Portuguese
4 cr. Undergraduate.
Continuation of Portugs 103.
Prerequisites: Portugs 103(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).
Current Offerings: http://uwm.edu/schedule

PORTUGS 110 Accelerated Portuguese I
3 cr. Undergraduate.
Accelerated beginner-level course designed to enable students to develop comprehensive listening, speaking, reading, and writing skills in Portuguese.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

PORTUGS 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics announced in Schedule of Classes each time course is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
Last Taught: Fall 2005, Fall 2003, Fall 2002.
Current Offerings: http://uwm.edu/schedule

PORTUGS 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/change in topic.
Current Offerings: http://uwm.edu/schedule

PORTUGS 199 Independent Study
1-3 cr. Undergraduate.
For further information, consult department chair.
Prerequisites: 2.5 GPA, cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Summer 2011.
Current Offerings: http://uwm.edu/schedule

PORTUGS 203 Third-Semester Portuguese
3 cr. Undergraduate.
Prerequisites: Portugs 104(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PORTUGS 204 Fourth-Semester Portuguese
3 cr. Undergraduate.
Prerequisites: Portugs 203(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).
Current Offerings: http://uwm.edu/schedule

PORTUGS 215 Portuguese Weekend Immersion Experience:
1 cr. Undergraduate.
Immersion experience for students at the intermediate and advanced levels designed to expose them to the Portuguese language and culture.
Prerequisites: Portugs 104(P) or 110(P) or cons instr.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2014.
Current Offerings: http://uwm.edu/schedule

PORTUGS 225 Understanding Brazil:
3 cr. Undergraduate.
Topics in Brazilian culture and society.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule
PORTUGS 277 Portuguese Discussion Section:
1-2 cr. Undergraduate.
Discussion in Portuguese, designed to broaden perspectives, improve
language skills.
Prerequisites: Portug 204(P) or cons instr.
Course Rules: Offered in conjunction w/courses in other disciplines
(Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

PORTUGS 289 Internship in Portuguese, Lower Division
1-3 cr. Undergraduate.
Application of basic principles of Portuguese in a business,
organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Portug; 2.25 gpa; cons supervising faculty
member.
Course Rules: One cr earned for academic work based on 40 hours in
internship. May be retaken to 3 cr max.
Current Offerings: http://uwm.edu/schedule

PORTUGS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially
prepared course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Summer 2015.
Current Offerings: http://uwm.edu/schedule

PORTUGS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period.
Requires only dept & assoc dean approval. In exceptional circumstances,
can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2013, Fall 2012, Spring 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

PORTUGS 310 Advanced Composition and Conversation
3 cr. Undergraduate.
Designed to develop students’ oral and writing skills.
Prerequisites: Portug 204(P) or equiv. Generates L&S credit for
demonstrated equivalent preparation (14 retro cr).
Last Taught: Fall 2015, Fall 2013, Fall 2012, Fall 2010.
Current Offerings: http://uwm.edu/schedule

PORTUGS 313 Advanced Speaking and Listening
3 cr. Undergraduate.
Practice in speaking and listening for advanced students through
discussion of Luso-Brazilian audiovisual and/or multi-media cultural
tools; follow-up reading, writing, and grammar activities.
Prerequisites: Portug 204(P) or equiv.
Course Rules: Generates L&S credit for demonstrated equivalent
preparation (14 retro crs).
Last Taught: Fall 2014.
Current Offerings: http://uwm.edu/schedule

PORTUGS 360 Luso-Brazilian Culture:
3 cr. Undergraduate.
One or more aspects of contemporary culture in the Portuguese-speaking
world.
Prerequisites: jr st or cons instr.
Course Rules: In English. May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PORTUGS 380 Luso-Brazilian Literature in Translation:
3 cr. Undergraduate.
Selected works of Brazilian, Portuguese, and/or African Lusophone
literature from different periods and genres, and representing several
subjects.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

PORTUGS 446 The Portuguese-Speaking World: Sociolinguistic
Perspectives
3 cr. Undergraduate/Graduate.
Examination of the history and development of Portuguese language and
sociolinguistics in Portugal, Brazil, and former Portuguese colonies in
Africa and Asia.
Prerequisites: jr st.
Course Rules: To count toward Portugs minor, coursework must be done
in Portugs.
Last Taught: Fall 2014, Spring 2006.
Current Offerings: http://uwm.edu/schedule

PORTUGS 457 Seminar in Luso-Brazilian Literature
3 cr. Undergraduate/Graduate.
Survey introduction to Brazilian, Portuguese, and/or African literature.
Prerequisites: jr st or cons. instr.
Course Rules: Taught in Portuguese with readings in Portuguese. To
count towards the Portuguese minor, course work must be written
in Portuguese. Graduate students may complete work in Spanish or
Portuguese.
Current Offerings: http://uwm.edu/schedule
PORTUGS 489 Internship in Portuguese, Upper Division
1-3 cr. Undergraduate.
Application of advanced principles of Portuguese in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: jr st; 300-level or above course in Portugs; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 3 cr max.
Last Taught: Fall 2013.
Current Offerings: http://uwm.edu/schedule

PORTUGS 497 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PORTUGS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PORTUGS 597 Study Abroad:
1-6 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

SPANISH 103 First-Semester Spanish
4 cr. Undergraduate.
Introductory course for students who have had little or no previous work in Spanish.
Prerequisites: none.
Course Rules: Open only to students with 2 yrs H.S. Spanish or less or a score of 1 on Spanish placement exam.
Current Offerings: http://uwm.edu/schedule

SPANISH 104 Second-Semester Spanish
4 cr. Undergraduate.
Continuation of Spanish 103.
Prerequisites: grade of C- or better in Spanish 103(P) or level 2 score on Spanish placement exam.
Course Rules: Generates L&S credits for demonstrated equivalent preparation (4 retro crs).
Current Offerings: http://uwm.edu/schedule

SPANISH 123 Regional Languages of Spain, First Semester:
3-6 cr. Undergraduate.
Introductory course for students who have had no previous work in one of the official, regional languages of Spain.
Prerequisites: none.
Course Rules: May be retaken w/chg of language.
Current Offerings: http://uwm.edu/schedule

SPANISH 124 Regional Languages of Spain, Second Semester:
3-6 cr. Undergraduate.
Second-semester introductory course for students who have had no previous work in one of the official, regional languages of Spain.
Prerequisites: Spanish 123(P) in same language.
Course Rules: May be retaken w/chg of language.
Current Offerings: http://uwm.edu/schedule

SPANISH 192 First-Year Seminar:
3 cr. Undergraduate.
The specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194).
Current Offerings: http://uwm.edu/schedule

SPANISH 197 Study Abroad:
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule
SPANISH 203 Third-Semester Spanish  
3 cr. Undergraduate.  
Continuation of Spanish 104. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature. 
Prerequisites: grade of C- or better in Spanish 104(P) or level 3 score on Spanish placement exam. 
Course Rules: Generates L&S credits for demonstrated equivalent preparation (8 retro crs). 
Current Offerings: http://uwm.edu/schedule

SPANISH 204 Fourth-Semester Spanish  
3 cr. Undergraduate.  
Continuation of Spanish 203. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature. 
Prerequisites: grade of C- or better in Spanish 203(P) or level 4 score on Spanish placement exam. 
Course Rules: Generates L&S credits for demonstrated equivalent preparation (11 retro crs). 
Current Offerings: http://uwm.edu/schedule

SPANISH 225 Understanding the Hispanic World:  
3 cr. Undergraduate.  
Different manifestations of Hispanic culture across continents and centuries studied from many angles. 
Prerequisites: none. 
Course Rules: In English. May be retaken w/chg in topic to 9 cr max. 
General Education Requirements: HU 
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016. 
Current Offerings: http://uwm.edu/schedule

SPANISH 277 Spanish Discussion Section  
1-2 cr. Undergraduate.  
Discussion in Spanish, designed to broaden perspectives and improve language skills. 
Prerequisites: none. 
Course Rules: Offered in conjunction w/courses in other disciplines or in Spanish. May be retaken to 6 cr max. 
Last Taught: Spring 2016, Fall 2015. 
Current Offerings: http://uwm.edu/schedule

SPANISH 289 Internship in Spanish, Lower Division  
1-3 cr. Undergraduate.  
Application of basic principles of Spanish in a business, organizational, educational, political, or other appropriate setting. 
Prerequisites: intro course in Spanish; 2.25 gpa; cons supervising faculty member. 
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 3 cr max. 
Current Offerings: http://uwm.edu/schedule

SPANISH 296 UROP Apprenticeship  
3 cr. Undergraduate.  
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. 
Prerequisites: acceptance into UROP, prior or conc reg in UROP seminar. 
Course Rules: One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. 
Current Offerings: http://uwm.edu/schedule

SPANISH 297 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before coursework level, content and cr are determined and/or in specially prepared program coursework. 
Prerequisites: acceptance for Study Abroad Prog. 
Course Rules: May be retaken w/chg in topic. 
Last Taught: Fall 2017, Summer 2017, Spring 2017, Fall 2016. 
Current Offerings: http://uwm.edu/schedule

SPANISH 299 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem. May be retaken w/chg in topic. 
Prerequisites: none; add’l prereqs may be assigned to specific topic. 
Current Offerings: http://uwm.edu/schedule

SPANISH 308 Advanced Writing and Reading  
3 cr. Undergraduate.  
Development of proficiency in different writing styles; emphasis on the most difficult aspects of Spanish through reading and other exercises. 
Prerequisites: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr. 
Course Rules: Counts as repeat of Spanish 305 and 316. Generates L&S credits for demonstrated equivalent preparation (14 retro credits). 
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016. 
Current Offerings: http://uwm.edu/schedule

SPANISH 315 Spanish Immersion Experience  
1 cr. Undergraduate.  
Concentrated practice in spoken Spanish with a native speaker in a small-group setting, with a focus on Hispanic culture. Offered in three-day modules. 
Prerequisites: Spanish 308(P); Spanish 318 (P) or 319 (P); or cons instr. 
Course Rules: May be retaken to 3 cr max. 
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013. 
Current Offerings: http://uwm.edu/schedule

SPANISH 318 Advanced Speaking and Listening  
3 cr. Undergraduate.  
Development of oral proficiency in relation to Hispanic culture. 
Prerequisites: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr. 
Course Rules: For non-heritage Spanish speakers. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro cr). 
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016. 
Current Offerings: http://uwm.edu/schedule
SPANISH 319 Advanced Speaking and Listening for Heritage Speakers
3 cr. Undergraduate.
Development of full proficiency in reading, writing, and speaking skills in Spanish for students with native/near-native command of these skills. **Prerequisites:** C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr. **Course Rules:** Open only to heritage Spanish speakers. Others with near-native proficiency admitted at instr discretion. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro credits). **Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016. **Current Offerings:** http://uwm.edu/schedule

SPANISH 332 Business and Legal Spanish I
3 cr. Undergraduate.
Business and legal language and practice in Spanish-speaking countries. **Prerequisites:** Spanish 308(P); Spanish 318(C) or 319(C). **Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014. **Current Offerings:** http://uwm.edu/schedule

SPANISH 333 Advanced Spanish Grammar
3 cr. Undergraduate.
Designed to solidify written expression skills and provide a clear understanding of Spanish grammar rules at an advanced level. **Prerequisites:** Spanish 308(P); Spanish 318(P) or 319(P). **Last Taught:** Fall 2017, Fall 2015, Fall 2014. **Current Offerings:** http://uwm.edu/schedule

SPANISH 338 Spanish for Health Professionals
3 cr. Undergraduate.
Acquisition of intermediate conversational and written skills in medical terminology in Spanish through a communicative approach. For health care students. **Prerequisites:** Spanish 308(P); & grade C- or better in Spanish 318(P) or 319(P) or equiv. **Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014. **Current Offerings:** http://uwm.edu/schedule

SPANISH 341 Introduction to Hispanic Linguistics
3 cr. Undergraduate.
Spanish linguistics, including phonetics, phonology, syntax, morphology, semantics, and sociolinguistics. **Prerequisites:** Spanish 308(P); Spanish 318(C) or 319(C). **Course Rules:** Generates L&S credits for demonstrated equivalent preparation (14 retro cr). **Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016. **Current Offerings:** http://uwm.edu/schedule

SPANISH 342 Business and Legal Spanish II
3 cr. Undergraduate.
Business terminology and concepts; instruction in the legal terminology of Hispanic countries; preparation of documents. **Prerequisites:** Spanish 308(P); Spanish 318(C) or 319(C), or cons instr. **Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015. **Current Offerings:** http://uwm.edu/schedule

SPANISH 348 Introduction to Translation: English to Spanish
3 cr. Undergraduate/Graduate.
Basic skills necessary for professional translation. Translation of texts from English into Spanish. Summarizing texts; sight translation. **Prerequisites:** jr st; Spanish 308(P); Spanish 318(C) or 319(C). **Last Taught:** Spring 2017, Fall 2014, Fall 2012, Fall 2011. **Current Offerings:** http://uwm.edu/schedule

SPANISH 350 Introduction to Literary Analysis
3 cr. Undergraduate.
Designed to acquaint students with the critical tools needed to analyze texts and conduct research. **Prerequisites:** Spanish 308(P); Spanish 318(C) or 319(C). **Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016. **Current Offerings:** http://uwm.edu/schedule

SPANISH 371 Introduction to Latino Literature in English
3 cr. Undergraduate.
Introduction to the development of literature by Chicanos, Nuyoricans, and other Hispanics since the late fifties and its historical, social, and political background. **Prerequisites:** jr st or writ cons dept. **Course Rules:** Taught in English. **General Education Requirements:** CD, HU **Last Taught:** Fall 2016, Fall 2014, Fall 2012, Spring 2011. **Current Offerings:** http://uwm.edu/schedule

SPANISH 373 Topics in Latino Literature in English:
3 cr. Undergraduate.
Some of the experiences of U.S. Hispanics as reflected in literature, film, and other cultural manifestations. **Prerequisites:** jr st or writ cons dept. **Course Rules:** Taught in English. May be retaken w/chg in topic to 6 cr max. **General Education Requirements:** HU, CD **Last Taught:** Fall 2015, Fall 2013, Fall 2011, Fall 2009. **Current Offerings:** http://uwm.edu/schedule

SPANISH 377 Introduction to Galician Culture
3 cr. Undergraduate/Graduate.
Main concepts and issues in understanding the unique culture of Galicia, in northwestern Spain, from a variety of perspectives. **Prerequisites:** jr st; Spanish 308(P); Spanish 318(C) or 319(C); cons instr. **General Education Requirements:** HU **Last Taught:** Summer 2007. **Current Offerings:** http://uwm.edu/schedule

SPANISH 380 Hispanic Literature in Translation:
3 cr. Undergraduate.
Selected works of Hispanic literature from different periods and genres and representing several subjects. **Prerequisites:** jr st. **Course Rules:** May be retaken w/chg in topic to 6 cr max. Does not count towards the major or minor. **Last Taught:** Spring 2005, Fall 1997, Spring 1996. **Current Offerings:** http://uwm.edu/schedule

SPANISH 388 Health Issues in the Hispanic World
3 cr. Undergraduate.
Different aspects of the health care system in the U.S. in relation to the Hispanic culture(s). **Prerequisites:** Spanish 308(P); & grade C- or better in Spanish 318(P) or 319(P) or equiv. **Last Taught:** Spring 2018, Spring 2017, Spring 2014, Spring 2012. **Current Offerings:** http://uwm.edu/schedule
SPANISH 391 Social and Historical Issues in the Hispanic World: 
3 cr. Undergraduate.
Culture of the Hispanic people, with a focus on a particular social or historical perspective and/or issue.
Prerequisites: Spanish 308(P); Spanish 318(C) or 319(C).
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: HU
Last Taught: Fall 2017, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SPANISH 397 Study Abroad: 
1-12 cr. Undergraduate.
Designed to enable students studying language abroad to receive course credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/ change in topic.
Current Offerings: http://uwm.edu/schedule

SPANISH 443 Spanish Phonetics and Phonology 
3 cr. Undergraduate/Graduate.
Theory of Spanish sounds; phonetic transcription; practice in pronunciation. Language lab may be required.
Prerequisites: jr st; Spanish 341(P).
Current Offerings: http://uwm.edu/schedule

SPANISH 444 Spanish Syntax and Morphology 
3 cr. Undergraduate/Graduate.
Comprehensive review of Spanish syntax and morphology: the meaning of words, sentences, and discourse.
Prerequisites: jr st; Spanish 341(P).
Last Taught: Fall 2016, Fall 2013, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

SPANISH 446 Hispanic Sociolinguistics 
3 cr. Undergraduate/Graduate.
Critical analysis of the relationship between language and society in the Hispanic world.
Prerequisites: jr st; Spanish 341(P).
Current Offerings: http://uwm.edu/schedule

SPANISH 470 Survey of Hispanic Literature and Civilization 
3 cr. Undergraduate.
Literature in Spain and Spanish America from the Middle Ages to 1880.
Prerequisites: jr st, Spanish 350(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPANISH 472 Survey of Spanish-American Literature and Civilization 
3 cr. Undergraduate.
Literature in Spanish America from Modernism to the present.
Prerequisites: jr st; Spanish 350(P).
Current Offerings: http://uwm.edu/schedule

SPANISH 474 Survey of Spanish Literature and Civilization 
3 cr. Undergraduate.
Literature in Spain from Realism to the present.
Prerequisites: jr st; Spanish 350(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SPANISH 479 Internship in Spanish, Upper Division 
1-3 cr. Undergraduate.
Application of advanced principles of Spanish in a business, organizational, educational, political, or other appropriate non-salaried setting.
Prerequisites: jr st; 6 cr at 400-level or above in Spanish; 3.50 gpa in Spanish major; writ cons supervising faculty member and dept chair.
Course Rules: One cr earned for academic work based on 40 hrs in internship. May be retaken to 3 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 491 Topics in Hispanic Culture: 
3 cr. Undergraduate/Graduate.
The culture of a group of Hispanic people from a particular social and/or historical perspective, with a focus on one or more manifestations of that culture.
Prerequisites: jr st; Spanish 350(P); 3 cr from Spanish 470(P) or 472(P) or 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 497 Study Abroad: 
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, contact, and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

SPANISH 499 Ad Hoc: 
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: jr st; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

SPANISH 506 Seminar in Spanish Literature: 
3 cr. Undergraduate/Graduate.
One or more areas of Spanish peninsular literature across periods, genres, or regions.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 507 Seminar in Spanish-American Literature: 
3 cr. Undergraduate/Graduate.
One or more areas of Spanish-American literature across periods, genres, or regions.
Prerequisites: jr st; Spanish 470(P) & 472(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
SPANISH 508 Seminar in Hispanic Literature:
3 cr. Undergraduate/Graduate.
A literary subject with manifestations in more than one Hispanic
literature, including Latino literature, with focus on the differences
between/among them.
Prerequisites: jr st; Spanish 470(P); Spanish 472(P) or 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Spring 2010.
Current Offerings: http://uwm.edu/schedule

SPANISH 541 History of the Spanish Language
3 cr. Undergraduate/Graduate.
External and internal history of the evolution of the Spanish language.
Prerequisites: jr st; Spanish 341(P); 3 cr from Spanish 443(P) or 444(P) or
446(P), or cons instr.
Current Offerings: http://uwm.edu/schedule

SPANISH 545 Seminar in Hispanic Linguistics:
3 cr. Undergraduate/Graduate.
One or more branches of linguistics, such as dialectology, pragmatics,
sociolinguistics, historical linguistics, etc., in relation to the Hispanic
languages.
Prerequisites: jr st; Spanish 341(P); 3 credits from Spanish 443(P) or
444(P) or 446(P), or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SPANISH 570 Seminar in Spanish Golden Age Literature:
3 cr. Undergraduate/Graduate.
Topics on the poetry and/or the narrative and didactic prose of the late
sixteenth and the seventeenth centuries.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 571 Seminar in Spanish-American Colonial Literature and
Civilization:
3 cr. Undergraduate/Graduate.
Poetry, narrative, didactic prose, and dramatic literature of Spanish
America up to the eighteenth century.
Prerequisites: jr st; Spanish 470(P) & 472(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 572 Seminar on Cervantes:
3 cr. Undergraduate/Graduate.
'Don Quixote' and/or other works by Cervantes.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2017, Fall 2013, Fall 2008, Fall 2005.
Current Offerings: http://uwm.edu/schedule

SPANISH 575 Seminar in 18th & 19th Century Spanish-American
Literature & Civilization:
3 cr. Undergraduate/Graduate.
Topics on the poetry, fiction, drama and/or essay of the Spanish-
American countries during the 18th and 19th centuries.
Prerequisites: jr st; Spanish 470(P) & 472(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 577 Seminar in Modern Spanish-American Literature and
Civilization:
3 cr. Undergraduate/Graduate.
Topics on the poetry, fiction, essay, and/or drama of the Spanish
American countries after 1888.
Prerequisites: jr st; Spanish 470(P) & 472(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 578 Seminar in Modern Spanish Literature and Civilization:
3 cr. Undergraduate/Graduate.
Topics on the poetry, fiction, and/or drama of twentieth- and twenty-first-
century Spain.
Prerequisites: jr st; Spanish 470(P) & 474(P).
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Spring 2016, Fall 2014, Fall 2010.
Current Offerings: http://uwm.edu/schedule

SPANISH 595 Spanish for Reading Knowledge
3 cr. Undergraduate.
Reading proficiency for students who are not Spanish majors but who
have an interest in learning and/or solidifying their reading skills in the
language.
Prerequisites: jr st.
Course Rules: Counts as repeat of Spanish 499 with same topic.
Last Taught: Summer 2013, Summer 2012.
Current Offerings: http://uwm.edu/schedule

SPANISH 597 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

SPANISH 697 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enable students studying language abroad to receive course
credit at appropriate level.
Prerequisites: jr st; acceptance in Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule
SPANISH 699 Independent Study
1-3 cr. Undergraduate.
Advanced independent work under supervision of Spanish faculty or instructional academic staff member. Instructor must approve student's study proposal. For more information, consult dept chair.
Prerequisites: jr st; 2.5 overall GPA; 3.5 Spanish GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: May be retaken w/chg in topic to 3 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 700 Practicum in Spanish Language Teaching Methods
1 cr. Graduate.
Practical application within Spanish of methods and concepts taught in MALLT (MAFLL) 700.
Prerequisites: grad st; MALLT (MAFLL) 700(C) or cons instr.
Course Rules: Retakable to 2 cr max.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SPANISH 701 Historical Linguistics
3 cr. Graduate.
Evolution of the language from Latin to medieval Spanish and from medieval to modern Spanish, including contemporary varieties.
Prerequisites: grad st; Spanish 341(R) or equiv.
Current Offerings: http://uwm.edu/schedule

SPANISH 702 Seminar in Hispanic Linguistics:
3 cr. Graduate.
Seminar in selected subfields of Hispanic linguistics.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

SPANISH 703 Seminar on Language and Society:
3 cr. Graduate.
Analysis and discussion of advanced issues on the interaction between language and society in the Hispanic world and/or different areas of interest.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2012, Fall 2011, Fall 2009.
Current Offerings: http://uwm.edu/schedule

SPANISH 705 Seminar in the Structure of the Spanish Language:
3 cr. Graduate.
Selected problems in Spanish linguistics.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SPANISH 707 Introduction to Translation: Spanish to English
3 cr. Graduate.
Basic skills necessary for professional translation. Translation of texts from Spanish into English. Summarizing texts; sight translation.
Prerequisites: grad st; Spanish 308(P) or equiv.
Course Rules: Counts as a repeat of Trnsltn 707. Not open for cr to students w/grad cr in Spanish 347.
Last Taught: Fall 2009, Fall 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

SPANISH 717 Seminar in Advanced Translation: Spanish to English
3 cr. Graduate.
Comparative study of Spanish and English syntax; advanced translation (Spanish to English) of texts from the humanities, social and political sciences, technical writing, advertising. Counts as repeat of Trnsltn 717. Not open to students w/grad cr in Spanish 447.
Prerequisites: grad st; Spanish 707(P) or grad cr in Spanish 347 (P), or writ cons Transltn coord.
Last Taught: Spring 2010.
Current Offerings: http://uwm.edu/schedule

SPANISH 720 Approaches to Hispanic Literary Theory and Criticism
3 cr. Graduate.
Literary theory and criticism from and pertinent to Hispanic literatures and cultures. Prereq: grad st
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 751 Seminar in Medieval Literature and Related Topics:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 753 Seminar in Renaissance Literature and Related Topics:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 755 Seminar in One or More Areas of Siglo de Oro Literature and Related Topics:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Spring 2017, Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SPANISH 763 Seminar-Romantic Literature in Spain &/or Spanish America & Related Topics:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2007.
Current Offerings: http://uwm.edu/schedule

SPANISH 767 Sem on Realistic Literature in Spain &/or Spanish America & Related Topics:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Spring 2008.
Current Offerings: http://uwm.edu/schedule

SPANISH 768 Naturalism and Its Influences
3 cr. Graduate.
A study of Naturalism and its influences in Spain during the 19th, 20th, and 21st centuries.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule
SPANISH 769 Seminar in 20th Century Literature of Spain and/or Spanish America & Related Topics:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SPANISH 770 The Modern Spanish Novel
3 cr. Graduate.
A study of the novel in Spain since the death of Franco in 1975.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2009.
Current Offerings: http://uwm.edu/schedule

SPANISH 771 Seminar in Early Spanish American Literature and Related Topics:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2011, Fall 1999.
Current Offerings: http://uwm.edu/schedule

SPANISH 781 Seminar in Hispanic Literature:
3 cr. Graduate.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 6 cr max.
Last Taught: Spring 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

SPANISH 782 Modern Spanish Women Writers
3 cr. Graduate.
A study of women writers of Spain during the 20th and 21st centuries.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SPANISH 785 Detective Fiction of Spain
3 cr. Graduate.
A study of the detective genre in the literature of Spain.
Prerequisites: grad st.
Last Taught: Spring 2013, Fall 2010.
Current Offerings: http://uwm.edu/schedule

SPANISH 790 Thesis
1-6 cr. Graduate.
Independent study and research on a master's thesis under supervision of the student's advisory committee.
Prerequisites: grad st; cons advisory committee.
Course Rules: Retakable to 6 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 791 Spanish Culture and Related Topics:
3 cr. Graduate.
An in-depth examination of the culture of Spain with special attention paid to the history of the country and to the formation of a Spanish identity.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 793 Spanish American Culture and Related Topics:
3 cr. Graduate.
In-depth examination of the development of a Latin American culture with a focus on key aspects of that culture after independence.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 799 Independent Study
1-3 cr. Graduate.
Individual program of supervised study in the student's area of emphasis or interest, different from content of course offerings, supervised by a graduate faculty. Topics selected in agreement with and the approval of supervising professor.
Prerequisites: grad st; 3.0 gpa in Spanish grad courses, writ cons instr & dept chair.
Course Rules: Retakable w/chg in topic to 3 cr max.
Current Offerings: http://uwm.edu/schedule

SPANISH 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee assessed for 1 cr.
Last Taught: Summer 2017, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

Faculty
Name | Rank | Degree | School | Graduate Faculty | Emeritus Faculty
--- | --- | --- | --- | --- | ---
Nancy Bird-Soto | Associate Professor | PhD | University of Wisconsin-Madison | ✔ | 
Santiago Daydi-Tolson | Professor Emerita | PhD | | ✔ | 
César Ferreira | Professor | PhD | University of Texas-Austin | ✔ | 
Stellia Jordán | Senior Lecturer | MA | University of Wisconsin-Milwaukee | | 
R. John McCaw | Associate Professor | PhD | Princeton University | ✔ | 
Ismael Márquez | Professor Emerita | PhD | | ✔ | 
Isabel Méndez Santalla | Senior Lecturer | MA | University of Wisconsin-Milwaukee | | 
Gabriel Rei-Doval Grela | Associate Professor | PhD | Universidad de Santiago de Compostela | ✔ | 
Julio Rodríguez-Luis | Professor Emerita | PhD | | ✔ |
Business Spanish, Minor

In addition to the major and minor in Spanish, students can also complete a minor in Business Spanish, with a focus on the business and legal terminology and concepts that are relevant within the United States and the 21 countries in which Spanish is the official language. The minor in Business Spanish requires the completion of 18 credits, including two required courses in Business and Legal Spanish. Students in the Lubar School of Business must complete the requirements in the Business Students Track, while all other students complete the Non-Business Students Track.

Requirements

The minor in Business Spanish requires the completion of 18 credits as indicated below. At least 9 of the 300-level or above credits must be taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work. Students in the Lubar School of Business must complete the requirements in the Business Students Track. All other students complete the Non-Business Students Track. Students are responsible for completing any prerequisite courses as well.

Business Students Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following options:</td>
<td>6</td>
</tr>
<tr>
<td>Option 1:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPANISH 203</td>
<td>Third-Semester Spanish</td>
<td></td>
</tr>
<tr>
<td>SPANISH 204</td>
<td>Fourth-Semester Spanish</td>
<td></td>
</tr>
<tr>
<td>Option 2:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPANISH 308</td>
<td>Advanced Writing and Reading</td>
<td></td>
</tr>
<tr>
<td>SPANISH 318 or SPANISH 319</td>
<td>Advanced Speaking and Listening</td>
<td></td>
</tr>
<tr>
<td>SPANISH 332</td>
<td>Business and Legal Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 342</td>
<td>Business and Legal Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in Spanish courses numbered 300 and above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18-19</td>
</tr>
</tbody>
</table>

1 An appropriate internship experience (for example, with a firm doing business in Latin America or Spain) may substitute for one of the required courses in the minor. Such substitutions must be approved by the Department of Spanish and Portuguese in consultation with the Lubar School of Business Administration, which will assist students in finding an internship.

2 Students who test beyond one/both of these courses and do not receive retroactive credits for one/both of these courses must substitute a course or courses from among SPANISH 333, SPANISH 341, SPANISH 348, SPANISH 350, or SPANISH 391.

Non-Business Students Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPANISH 332</td>
<td>Business and Legal Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 342</td>
<td>Business and Legal Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201 or BUS ADM 360</td>
<td>Introduction to Financial Accounting or Principles of Marketing</td>
<td>3-4</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits in Spanish courses numbered 300 and above</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18-19</td>
</tr>
</tbody>
</table>

1 An appropriate internship experience (for example, with a firm doing business in Latin America or Spain) may substitute for one of the required courses in the minor. Such substitutions must be approved by the Department of Spanish and Portuguese in consultation with the Lubar School of Business Administration, which will assist students in finding an internship.

Contact Information

Current Students contact Senior Lecturer Stellia Jordan, schessma@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/spanish-portuguese/undergraduate/spanish-program/

Portuguese, Minor

UW-Milwaukee is the only other university in Wisconsin besides UW-Madison that offers Portuguese on a regular basis. We offer an undergraduate minor in Portuguese.

Students are strongly encouraged to utilize our Center for International Education to take advantage of study abroad (http://uwm.edu/cie/study-
abroad) experiences available in Brazil and Portugal for a semester or year.

Requirements

The undergraduate minor in Portuguese requires 18 credits of Portuguese taken in courses numbered PORTUGS 203 or above. Nine credits must be taken at the 300 level or above in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.500 GPA on all minor credits attempted, including any transfer work.

Students with no previous Portuguese language experience should enroll in PORTUGS 103. After consultation with the Portuguese coordinator, a student may enroll in a course higher than PORTUGS 103, if appropriate. Students placed into a course beyond the PORTUGS 103 level who complete their first course with a grade of at least B may receive retroactive credits, to a maximum of 14 credits, for the courses leading to the one into which they are placed. Courses that generate Credits for Demonstrated Equivalent Preparation (retroactive credits) are the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORTUGS 104</td>
<td>Second-Semester Portuguese (4 retroactive credits)</td>
<td></td>
</tr>
<tr>
<td>PORTUGS 203</td>
<td>Third-Semester Portuguese (8 retroactive credits)</td>
<td></td>
</tr>
<tr>
<td>PORTUGS 204</td>
<td>Fourth-Semester Portuguese (11 retroactive credits)</td>
<td></td>
</tr>
<tr>
<td>PORTUGS 310</td>
<td>Advanced Composition and Conversation (14 retroactive credits)</td>
<td></td>
</tr>
</tbody>
</table>

Contact Information

Current Students contact Susana Antunes, antunes@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/spanish-portuguese/undergraduate/portuguese-program/

Spanish for Health Professionals, Undergraduate Certificate

The Spanish for Health Professionals (SHP) Certificate Program is designed to provide students with the language skills and cultural knowledge needed to help Spanish-speakers successfully negotiate the health care system. Graduates of the program leave not only with proficiency in medical Spanish, but also with an understanding of the Hispanic culture and how that culture may affect healthcare practices and the delivery of health services.

This certificate will enhance the credentials of individuals seeking a career in direct patient care such as doctor, nurse, physician assistant, nurse practitioner, or physical therapist, or anyone who works with Spanish-speakers in a healthcare setting such as insurance providers or healthcare navigators.

Hispanic and Latino groups are the largest minority group in the United States, and Spanish-speakers constitute the fastest-growing segment of the U.S. population. In Milwaukee alone, Spanish-speakers make up 14 percent of the population. As these populations grow, so does the need for healthcare workers who can communicate with and advocate for Spanish-speaking patients.

Students in the program gain expertise in the language of health care, in Spanish, including colloquial Spanish; an understanding of cultural differences that impact the delivery of health care services to Hispanic populations; and knowledge of the health care concerns of many different groups of Spanish-speakers. There is a language-intensive track for students who need more education in that area or a health-focused track for individuals who may have some Spanish fluency but need more background in medicine and science.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Spanish for Health Professionals Certificate is open to all students seeking a bachelor’s degree from UWM, to students who previously received a bachelor’s degree from UWM or any other accredited college or university, and to individuals who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree candidates, individuals must meet regular University admissions requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students will receive the certificate upon completion of the program requirements.

Requirements

There are two tracks in the Certificate, a language-intensive track for students in health professions areas who are interested in working with Hispanic populations and a health-focused track for students with some Spanish competency who desire familiarity with the health-related vocabulary in Spanish. To obtain the certificate, students must complete at least 18 credits in courses approved for the Spanish for Health Professionals certificate, with at least 12 credits taken in residence at UWM and a minimum of 9 of the residence credits taken in L&S courses at the advanced level (courses numbered 300 and above). A maximum of 6 credits in a combination of independent study, internship, and study abroad courses may count toward the certificate. Students must earn a 2.500 GPA in all certificate courses, including transfer work, and in the courses for the certificate taken at UWM. Courses for the certificate may not be taken on a credit/no credit basis. The certificate requirements are as follows:

Spanish for Health Professionals, Language-Intensive Track

The Language-Intensive Track requires completion of at least 18 credits as follows, and is not available to Spanish majors and minors; they must select the health-focused track:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 308</td>
<td>Advanced Writing and Reading</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 318</td>
<td>Advanced Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>or SPANISH 319</td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
<td></td>
</tr>
<tr>
<td>SPANISH 338</td>
<td>Spanish for Health Professionals</td>
<td>3</td>
</tr>
</tbody>
</table>
Health: A Social Science Perspective

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 210</td>
<td>Survey of Communication Disorders (SS) ¹</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 555</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOI 282</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOI 331</td>
<td>Sociology of Health Care</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ As determined by the certificate program coordinator.

Electives

Select 6 credits from any courses in the electives group listed for the health-focused track

Total Credits 18

Spanish for Health Professionals, Health-Focused Track

The Health-Focused Track requires completion of at least 18 credits as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 388</td>
<td>Spanish for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 9 credits in one of the clusters below
Select 3 credits from any cluster or the general electives

Total Credits 18

Health-Focused Track Electives

Health Communication

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 381</td>
<td>Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 481</td>
<td>Interpersonal Issues in Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 581</td>
<td>Health Communication Interventions</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 645</td>
<td>Seminar in Health and the Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Pharmaceuticals, Medicine, and Drugs

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
</tr>
<tr>
<td>HCA 212</td>
<td>Drugs Used and Abused</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 454</td>
<td>Psychopharmacology and Addiction</td>
<td>3</td>
</tr>
</tbody>
</table>

Health Care Delivery Policy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 450</td>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>HCA 502</td>
<td>Healthcare Delivery Systems: National and International Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 244</td>
<td>Ethical Issues in Health Care: (subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 639</td>
<td>Health Care and Public Policy in the United States</td>
<td>3</td>
</tr>
</tbody>
</table>

Health: A Natural Science Perspective

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 350</td>
<td>Human Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>BMS 232</td>
<td>Introduction to Nutrition (NS) ¹</td>
<td>3</td>
</tr>
<tr>
<td>HS 101</td>
<td>Introduction to Health and Disease</td>
<td>2</td>
</tr>
</tbody>
</table>

¹ As determined by the certificate program coordinator.

General Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Integrative Health Approaches</td>
<td>3</td>
</tr>
<tr>
<td>HCA 307</td>
<td>Epidemiology for the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care (CD SS)</td>
<td>3</td>
</tr>
<tr>
<td>NURS 102</td>
<td>Perspectives on Health Care Systems</td>
<td>2</td>
</tr>
<tr>
<td>NURS 110</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 380</td>
<td>Honors Seminar:</td>
<td>3</td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Study abroad courses in Spanish-speaking countries may be accepted with the approval of the Certificate Program Committee. Other courses not on this list but relevant to Spanish for Health Professionals may be accepted with the approval of the Certificate Program Committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Committee. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

Contact Information

Current Students contact Senior Lecturer Maria Sotomayor, mes4@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/spanish-portuguese/undergraduate/spanish-program/

Spanish, BA

Spanish is spoken by 400 million people worldwide and is an official language in 21 countries and a number of international organizations. Spanish is among the three most spoken languages in the world and, by some estimates, has more native speakers than English. Fluency in Spanish opens countless career opportunities for students.

A Spanish major provides exceptional preparation for students interested in a career in business, international affairs, social services, government, health care, communication, translation, marketing, teaching or any profession that requires bilingual written or oral communication skills and cultural understanding. Whether you already have some Spanish communication skills or are starting at the beginning, you will develop both your language capabilities as well as your cultural competence as part of our major. Classes focus on not only language, but literature, linguistics, customs, values, and culture so that students leave UWM ready to speak, read, write and understand Spanish in business and social contexts. Students are strongly encouraged to utilize our Center for International Education to take advantage of study abroad experiences available in Argentina, Chile, Ecuador, Mexico, Peru and Spain. Some
students go short-term such as a week or two while others choose to stay abroad for a summer program, a semester or a year.

A Spanish minor and a Business Spanish minor are also available. The Spanish minor can be completed with most Spanish courses at the 300-level and above, while the curriculum for the Business Spanish minor is more structured, with required courses in Business and Legal Spanish. In addition, students who plan to pursue healthcare careers will find value in our Certificate in Spanish for Health Professionals (http://uwm.edu/letters-science/programs?discipline=Spanish+for +Health+Professionals). The certificate is similar to a minor in terms of the number of credits required and can enhance a student’s resume. This certificate can be structured with a health focus for students who already have a high level of proficiency in Spanish but want to expand their knowledge of different areas of healthcare, (more classes in health care delivery policy; pharmaceuticals, medicine, and drugs; and health communication) or with a language focus for students who already have a background in healthcare but want to develop their language proficiency in Spanish (more classes in advanced Spanish).

Requirements

Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral and Written Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Quantitative Literacy

<table>
<thead>
<tr>
<th>Part A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
</tr>
<tr>
<td>MATH 103</td>
</tr>
<tr>
<td>MATH 105</td>
</tr>
<tr>
<td>MATH 108</td>
</tr>
<tr>
<td>Or equivalent course</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
</tr>
</tbody>
</table>

Arts

| Select 3 credits | 3 |
| Humanities      | 6 |
| Social Sciences | 6 |
| Natural Sciences | 6 |

UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two semesters (high school) of a single foreign language
- Or equivalent

UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements

I. English Writing Requirement

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part A listed above.

II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:
   - MATH 103: Contemporary Applications of Mathematics
   - MATH 105: Introduction to College Algebra
   - MATH 108: Algebraic Literacy II
   - MATH 175: Mathematical Explorations for Elementary Teachers I

   **Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 202</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 303</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

Complete 3 credits in a course with Cultural Diversity (CD) designation; no more than 6 credits from a single subject area.

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single subject area.

Complete 12 credits of L&S Courses with Humanities Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single subject area.

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single subject area.

Complete 3 courses (min. 9 credits) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Spanish Major Requirements
The major in Spanish requires 33 credits in Spanish courses at the 300 level and above, at least 15 of which must be taken in residence at UWM. The College requires that students attain at least a 2.500 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.500 GPA on all major credits attempted, including any transfer work. Students must complete the following requirements:

SPANISH 380 and SPANISH 595 do not count toward the major.

All majors are required to take an exit examination, which is offered on campus near the end of each semester. It is recommended strongly that they take this exam during their last semester in the Spanish program.
Select a minimum of 9 additional credits at the 300 level or above (see below) 9

Total Credits 33

Students must complete a research experience within the context of one of the following courses at the 500 level. All 500-level courses include a research component that serves to develop students' ability to do independent research in a specific field of interest. Both the oral presentation and the written research paper will be evaluated and rated in the areas of language acquisition/usage as well as research ability/synthesis.

Electives

Students must take a minimum of 9 additional credits at the 300 level or above. All 9 credits can be taken from the following list of electives as well as from the 500-level courses listed under the research requirement:

Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed
sample plans, as they are intended to be samples only and may not be right for your particular situation.

**Honors in the Major**

Spanish majors who meet the following requirements may apply to the undergraduate advisor to graduate with Honors in the Major:

1. Maintain at least a 3.500 GPA in all advanced credits that count toward the major;
2. Maintain at least a 3.000 GPA in all graded courses attempted at UWM; and
3. Take at least two 500-level Spanish courses.

**Honors in the College of Letters and Science**

**Dean’s Honor List**

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

**Contact Information**

Current Students contact Senior Lecturer Stellia Jordan, schessma@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/spanish-portuguese/undergraduate/

**Spanish, MA**

The Department of Spanish and Portuguese offers a program of graduate study leading to a Master of Arts degree that focuses on the study of the Spanish cultures, language, linguistics, and literatures of the Hispanic world. Spanish MA graduates who subsequently wish to pursue the PhD are very advanced in the process of mastering the area in which they wish to specialize in their doctoral studies. Those who choose not to continue studying toward a PhD or a career in teaching will be able to pursue employment in other fields that require full proficiency in the Spanish language as well as mastery of Hispanic literature, culture, and linguistics.

The Department of Spanish and Portuguese has identified five learning outcomes for our MA majors in Spanish. These educational goals relate closely to the National Standards for Foreign Language Learning, as recommended by the American Council of Teachers of Foreign Languages.

Students will be able:

1. To communicate with an advanced or high-level of Spanish proficiency in all four skill areas including listening, reading, writing, and speaking.
2. To develop an advanced understanding and appreciation of Hispanic cultures and communities throughout the world, and analyze and draw cross-cultural differences which will be essential to future careers in a growing global environment.
3. To build a foundation of knowledge in the areas of Spanish and Spanish-American literature, culture, and linguistics, which will give students the breadth necessary for subsequent specialization in doctoral studies.
4. To develop and expand research and analytical skills within the area of Hispanic Studies, including literary analysis, cultural studies, and linguistic analysis.
5. To develop basic reading competencies in an additional romance language to prepare students for further research and provide broader career options.

The Department also participates, and works closely, with the Center for Latin American and Caribbean Studies.

**Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

An applicant must meet general admission requirements for the Graduate School, as established by the graduate faculty of the university, plus the following requirements to be considered for admission:

1. A bachelor’s degree with a major in Spanish, foreign languages with an emphasis in Spanish, comparative literature, Hispanic linguistics, or translation; or with a combination of courses that will, in the opinion of the Department, allow the student to participate fully in the program.
2. A 3.0 grade point average in the last 60 credits of undergraduate coursework.
3. A narrative statement of intent, written in both Spanish and in English.
5. An academic writing sample in Spanish.
6. Three letters of recommendation from former professors or advisors.

Applicants who do not have the requisite 3.0 grade point average in the last 60 credits of the undergraduate degree may be considered for admission on probation. Students will be removed from probation at the
end of their first semester of enrollment if they achieve at least a 3.0 grade point average.

**Major Professor as Advisor**

All students must have a major professor who serves as an advisor and supervises their course of study. The Director of the MA program acts as the initial advisor for all entering students. By the end of the second semester, students will be matched with an advisor based on their academic interest.

**Credits and Courses**

A content-based examination is mandatory for all incoming students. The results of this examination are used to develop the program of study. Students with insufficient preparation for graduate study in one or more areas may be admitted with specific, program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

A minimum of 30 graduate credits beyond the baccalaureate degree is required for the MA in Spanish. All students must demonstrate reading competency in a second Romance language. In order to do so, they may take the departmental graduate reading exam or complete two semesters of coursework at the 700 level or above. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Specific course requirements and credit distribution are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 701</td>
<td>Historical Linguistics (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 720</td>
<td>Approaches to Hispanic Literary Theory and Criticism (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 12 credits in Spanish or Spanish-American literature and culture courses at the 700 level or above</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits in language and/or linguistics courses in Spanish</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select 6 credits of electives in Hispanic culture, language, linguistics, literature, thesis, or related courses</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits: 30

All teaching assistants are required to enroll in MALLT 700 or an equivalent course during their first year. This course counts toward the 6 credits of electives.

No 300-level courses will apply toward the degree, and a maximum of six (6) graduate credits in 400-level U/G courses may be used to fulfill degree requirements.

The MA degree in Spanish offers both non-thesis and thesis options.

**Non-Thesis Option**

Students pursuing the non-thesis option must complete a minimum of thirty (30) credits of acceptable graduate-level coursework (including the courses specifically required) and receive a passing grade on the final comprehensive examination.

**Thesis Option**

Students pursuing the thesis option must complete a minimum of twenty four (24) credits of acceptable graduate-level coursework, successfully defend a thesis for which a maximum of six (6) credits is granted, and receive a passing grade on the final comprehensive examination.

Students in the thesis option should choose an area of specialization for the thesis as early as possible. After a thesis topic is chosen, students, with the approval of the major professor, select two additional members of the graduate faculty in the area of concentration to serve as the thesis committee. A member of the graduate faculty specializing in the student’s area of concentration acts as the thesis director and chair of the committee. Students writing a linguistics-based thesis may use either the APA, LSA, or MLA style. All other theses must be written following the MLA style.

Upon the approval of the Departmental Graduate Studies Committee, a student may be allowed to write the Spanish MA thesis in Spanish; each request will be examined on an individual basis to ensure the highest quality of theses and the linguistic ability of each petitioner. Those approved to write the thesis in Spanish must also provide an abstract written in English.

**Comprehensive Final Examination**

Students enrolled in the thesis and non-thesis options take the same MA comprehensive examination. Students are urged to take the examination no later than the fourth semester of graduate study. The examination may be repeated once.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Spanish, Minor**

Spanish is spoken by 400 million people worldwide and is an official language in 21 countries and a number of international organizations. Spanish is among the three most spoken languages in the world and, by some estimates, has more native speakers than English. Fluency in Spanish opens countless career opportunities for students.

The Spanish minor provides exceptional preparation for students interested in a career in business, international affairs, social services, government, health care, communication, translation, marketing, teaching or any profession that requires bilingual written or oral communication skills and cultural understanding. Whether you already have some Spanish communication skills or are starting at the beginning, you will develop both your language capabilities as well as your cultural competence as part of our program. Classes focus on not only language, but literature, linguistics, customs, values, and culture so that students leave UWM ready to speak, read, write and understand Spanish in business and social contexts. Students are strongly encouraged to utilize our Center for International Education to take advantage of study abroad (https://uwm.edu/cie/study-abroad) experiences available in Argentina, Chile, Ecuador, Mexico, Peru and Spain. Some students go short-term such as a week or two while others choose to stay abroad for a summer program, a semester or a year.

The Spanish minor can be completed with most Spanish courses at the 300-level and above. Students who plan to pursue healthcare careers will find value in our Certificate in Spanish for Health Professionals.
(p. 1767). The certificate is similar to a minor in terms of the number of credits required and can enhance a student’s resume. This certificate can be structured with a health focus for students who already have a high level of proficiency in Spanish but want to expand their knowledge of different areas of healthcare, (more classes in health care delivery policy; pharmaceuticals, medicine, and drugs; and health communication) or with a language focus for students who already have a background in healthcare but want to develop their language proficiency in Spanish (more classes in advanced Spanish).

### Requirements

The minor in Spanish consists of 18 credits at the 300 level or above, at least 9 of these in residence at UWM. These credits may include a maximum of 3 credits selected from SPANISH 371, SPANISH 373, PORTUGS 360, or PORTUGS 380. With the exception of PORTUGS 380, no literature-in-translation courses may count toward the minor. SPANISH 380 and SPANISH 595 do not count toward the minor.

The College requires that students attain at least a 2.500 GPA on all credits in the minor attempted at UWM. In addition, a 2.500 GPA on all minor credits attempted, including any transfer work, is required.

### Contact Information

Current Students contact Senior Lecturer Stellia Jordan, schessma@uwm.edu

Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

http://uwm.edu/spanish-portuguese/undergraduate/
TRANSLATION AND INTERPRETING STUDIES

The Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

• be an in-house translator
• be a freelancer
• be a translation company owner
• specialize in your area of interest
• pursue doctoral studies
• develop your professional skills without pursuing a degree

• Interpreting, Graduate Certificate (p. 1775)
• Translation and Interpreting Studies, MA (p. 1776)

Interpreting, Graduate Certificate

The demand for interpreting services in the U.S. far exceeds the supply of qualified interpreters, and the federal government estimates that job opportunities for interpreters will increase significantly faster than the average rate of job growth through 2030. The Graduate Certificate in Interpreting offers online professional training to students in any of the offered language pair. The program is designed for those who have earned an undergraduate degree, have either significant industry experience or post-graduate degrees, and are interested in languageservices careers focused on interpreting.

The Graduate Certificate program is recognized by the American Translators Association as an approved Translation & Interpreting Studies program. Alumni go on to work as freelance or in-house interpreters in a broad range of areas, including legal, medical, and community interpreting.

For information, please go here: http://uwm.edu/translation-interpreting-studies/contact/request-for-information/

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Eligibility and Admission

Applicants to the Graduate Certificate program in Interpreting must hold a bachelor’s degree with an overall grade point average (GPA) of 2.75. If the GPA is less than 2.75, the applicant must provide substantial evidence of ability to succeed in graduate-level work.

A degree in the applicant’s foreign language or advanced study in that language is desirable but not required. To be eligible for admission, all applicants to the certificate program must pass a qualifying examination administered by the faculty of Translation & Interpreting Studies (TIS).

Application

• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.
• Certificate applicants in Interpreting must pass a qualifying examination administered by TIS faculty (http://uwm.edu/translation-interpreting-studies/admissions/qualifying-exam).

Credits and Courses

Students must complete 21 credits of required courses. The following six courses (18 credits) must be completed at the graduate level:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 700</td>
<td>Consecutive Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 711</td>
<td>Ethics and Procedures in Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 722</td>
<td>Simultaneous Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 750</td>
<td>Advanced Modes of Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Electives

In addition to the six required courses, students must complete one elective course (3 credits). In consultation with the certificate coordinator, students select their elective from among the following courses. Other courses relevant to the student’s plan of study may be used to fulfill the elective requirement with the consent of the coordinator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 530</td>
<td>Business and Professional Aspects of Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 727</td>
<td>Project Management in Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 728</td>
<td>Editing for Translation</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRNSLTN 706</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 708</td>
<td>Introduction to Translation: German to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 707</td>
<td>Introduction to Translation: Spanish to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 719</td>
<td>Introduction to Translation: Russian to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 704</td>
<td>Introduction to Translation: Arabic to English</td>
<td>3</td>
</tr>
</tbody>
</table>
Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit

Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Contact Information

Translation & Interpreting Studies Department
Curtin Hall, 806
3243 N Downer Ave, Milwaukee, WI 53211

Phone: 414-229-3068
Phone: 414-229-5968
bddonald@uwm.edu
terando@uwm.edu

http://uwm.edu/translation-interpreting-studies/

Translation and Interpreting Studies, MA

UWM's Translation and Interpreting Studies program offers multiple degree options and tracks with concentrations in Research or Professional Translation, in five language pairs (Arabic, French, German, Russian, and Spanish to English) and/or in Interpreting. TIS offers through the MALLT program two coordinated degree programs: a MALLT (translation concentration)/MLIS degree with the School of Information Studies and a MALLT (translation concentration)/MBA with the Lubar School of Business. TIS also offers through the MALLT program coordinated 5-year bachelor’s/master’s programs (BA in French, German, Global Studies or LACUSL and MALLT—professional translation concentration—in relevant language pairs).

UWM graduates who earn the MA in Translation and Interpreting Studies in any of the above forms reflect sufficient preparation for gainful post-graduation employment or admission to a doctor of philosophy program at a peer or aspirational institutions, and they will:

1. Be knowledgeable about the linguistic, literary, and cultural productions of their source and target communities in the past and present; be able to situate them within a historical, cultural and discursive (interdisciplinary and/or cross-cultural) context; be familiar with several major tendencies in critical and theoretical analysis, and be able to apply them to the study of these texts.
2. Provide nuanced and sophisticated discussions (in writing and in conversation) of linguistic, literary, and cultural works in English, and when appropriate, in the target language of their field of study. This includes the ability to analyze and to incorporate critical/theoretical frameworks into their written and oral discussions of literary or cultural works.
3. Be able to perform professional skills tied to the translation and interpreting field (e.g., translate/interpret accurately in their area of specialization; create and maintain terminology database resources;
efficiently and accurately conduct research related to TandI; understand broad aspects of the TandI industry).

4. Conduct independent research in Translation and Interpreting Studies. This includes the ability to develop and delimit a research question, to conduct a systematic investigation of the question, and to present or evaluate research according to standard models of analysis and argumentation.

5. Be aware of career and post-graduate opportunities that their degree makes possible, which includes knowing how to search and apply for professional opportunities or advanced study related to the MA, and participating in professional activities such as colloquia, conferences, and meetings.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission Requirements
Students seeking admission to the MA in Translation and Interpreting Studies degree program must meet all UW-Milwaukee Graduate School (http://uwm.edu/graduateschool/admission) admission requirements.

- GRE General Test scores are not required, but students must pass the program’s Qualifying Exam (offered free three times/year).
- Entering graduate students should have a general background in a world language offered in the program and strong writing skills in English. Given the intrinsic multidisciplinary nature of Translation and Interpreting Studies, no specific undergraduate coursework is required.
- Students who lack minimal background requirements may be admitted provided that the deficiencies amount to no more than two courses, and deficiencies must be made up within three enrolled semesters of graduate study.

Credits and Courses
Students enrolled in the MA in Translation and Interpreting Studies degree program must complete a total of 30 credits. Of these credits, 21 are required for the Translation concentration, and 24 are required for the Interpreting concentration. The remaining 9 for Translation concentrations or 6 for Interpreting concentrations must be earned in approved graduate elective courses.

Formal courses in Translation and Interpreting Studies that may be taken for graduate credit are listed below (list is not exhaustive). All courses are for three credits unless otherwise noted.

Qualifying Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRNSLTN 530</td>
<td>Business and Professional Aspects of Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 699</td>
<td>Independent Reading</td>
<td>1-3</td>
</tr>
<tr>
<td>TRNSLTN 702</td>
<td>Introduction to Translation: English to Spanish</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 704</td>
<td>Introduction to Translation: Arabic to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 706</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 707</td>
<td>Introduction to Translation: Spanish to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 708</td>
<td>Introduction to Translation: German to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 709</td>
<td>Seminar in Literary and Cultural Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 710</td>
<td>Comparative Systems for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 711</td>
<td>Ethics and Procedures in Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 712</td>
<td>Seminar in Advanced Translation: English to Spanish</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 714</td>
<td>Advanced Translation: Arabic to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 716</td>
<td>Seminar in Advanced Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 717</td>
<td>Seminar in Advanced Translation: Spanish to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 718</td>
<td>Seminar in Advanced German Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 719</td>
<td>Introduction to Translation: Russian to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 720</td>
<td>Topics in Translation</td>
<td>1-3</td>
</tr>
<tr>
<td>TRNSLTN 726</td>
<td>Computer-Assisted Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 727</td>
<td>Project Management in Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 728</td>
<td>Editing for Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 729</td>
<td>Seminar in Advanced Translation: Russian to English</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 730</td>
<td>Internship in Translation</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 750</td>
<td>Advanced Modes of Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>TRNSLTN 790</td>
<td>Thesis</td>
<td>1-6</td>
</tr>
<tr>
<td>TRNSLTN 820</td>
<td>Translation Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Requirements

Comprehensive Examinations
Candidates for graduation in all TIS tracks and concentrations must, under the direction of their major professor and the supervision of their exam committee comprised of relevant graduate faculty, complete and defend comprehensive examinations.

Thesis
Students completing the Research track must also complete and defend a thesis. An acceptable thesis is defined as one that represents an original contribution to the field of Translation and Interpreting Studies, of sufficient caliber for publication in a peer-reviewed journal.

Time Limit
Full-time students generally take two years to complete the program; part-time students within three to five years. The student must complete all degree requirements within five years of initial enrollment.
URBAN STUDIES

Joel Rast, Associate Professor of Political Science, Program Director
James Harris, Associate Director
Fax: (414) 229-5942

Urban Studies provides the opportunity for students to explore scholarship on cities, suburban communities, and metropolitan regions with an interdisciplinary lens.

Programs

- Urban Studies, BA (p. 1782)
- Urban Studies, MS (p. 1786)
- Urban Studies, MS/Library and Information Science, MLIS (p. 1787)
- Urban Studies, PhD (p. 1788)
- Urban Studies, Undergraduate Certificate (p. 1790)

Urban Studies Courses

URB STD 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural study of U.S. ethnic and racial identities from an urban studies perspective, with attention to African-, Asian-, Hispanic-, and Native-American experiences.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req’d service learning component.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

URB STD 193 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

URB STD 250 Exploring the Urban Environment
3 cr. Undergraduate.
The nature of the city, the processes that effect change, and the future of the city.
Prerequisites: none.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

URB STD 289 Internship in Urban Studies, Lower Division
1-6 cr. Undergraduate.
Application of basic principles of Urban Studies in a business, organizational, educational, political, or other appropriate setting.
Prerequisites: intro course in Urb Std or related area; 2.25 gpa; cons supervising faculty member.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

URB STD 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: UWinteriM 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

URB STD 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add’l sem.
Prerequisites: none; add’l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

URB STD 360 Perspectives on the Urban Scene:
3 cr. Undergraduate.
Topics related to the structure, growth, and change of the urban environment.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

URB STD 377 Urbanism and Urbanization
3 cr. Undergraduate.
Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas.
Prerequisites: jr st & a Sociol 100-level course; or Urb Std 250(P).
Course Rules: Sociol 377 & Urb Std 377 are jointly-offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

URB STD 381 Honors Seminar:
3 cr. Undergraduate.
Selected topics.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

URB STD 450 Urban Growth and Development: A Global View
3 cr. Undergraduate/Graduate.
Urban growth and development from an international perspective.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule
URB STD 489 Internship in Urban Studies, Upper Division  
1-6 cr. Undergraduate.  
Application of advanced principles of urban studies in a business,  
organizational, educational, political, or other appropriate setting.  
Prerequisites: jr st; 300-level or above course in Urb Std or related area;  
2.5 gpa; cons supervising faculty member.  
Course Rules: One cr earned for academic work based on 40 hours in  
internship. May be retaken to 6 cr max.  
Last Taught: Fall 2017, Summer 2017, Summer 2016, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

URB STD 497 Study Abroad:  
1-12 cr. Undergraduate/Graduate.  
Designed to enroll students in UWM sponsored program before course  
work level, content, and credits are determined and/or in specially-  
prepared program course work.  
Prerequisites: jr st; acceptance for Study Abroad Prog, contact CIE  
Overseas Programs, PER 166, 229-5182.  
Last Taught: Spring 2018, UWinteriM 2018, UWinteriM 2017, UWinteriM  
2016.  
Current Offerings: http://uwm.edu/schedule

URB STD 499 Ad Hoc:  
1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period.  
Requires only dept & assoc dean approval. In exceptional circumstances,  
can be offered in one add'l sem.  
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: http://uwm.edu/schedule

URB STD 600 Capstone Seminar in Urban Studies  
3 cr. Undergraduate.  
Seminar on concepts, methods, and approaches to field of Urban Studies;  
readings and discussions on urban scholarship; students produce  
research proposals tailored to their interests.  
Prerequisites: sr st; declared Urb Std major.  
Current Offerings: http://uwm.edu/schedule

URB STD 625 Law and Urban Poverty  
3 cr. Undergraduate/Graduate.  
Examination of the relationship between law and poverty, with emphasis  
upon federal legislative attempts in specific problem areas to alleviate the  
condition of poverty.  
Prerequisites: jr st; cons instr.  
Current Offerings: http://uwm.edu/schedule

URB STD 639 Health Care and Public Policy in the United States  
3 cr. Undergraduate/Graduate.  
Health care policies in the United States.  
Prerequisites: jr st or cons instr.  
Current Offerings: http://uwm.edu/schedule

URB STD 699 Independent Reading  
3 cr. Undergraduate.  
Advanced readings and study in Urban Studies.  
Prerequisites: jr st, 2.5 gpa; cons instr; dept chair, & asst dean for SAS.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: http://uwm.edu/schedule

URB STD 704 Seminar in Nonprofit Organizations  
3 cr. Graduate.  
Overview of structure, functions, and governance of nonprofit  
organizations. Comparison with government and for-profit organizations.  
Prerequisites: grad st.  
Course Rules: Nonprof 704, Pol Sci 704, Sociol 704, & Urb Std 704 are  
jointly offered; they count as repeats of one another.  
Current Offerings: http://uwm.edu/schedule

URB STD 726 Advanced Methods of Urban Community Development  
3 cr. Graduate.  
Evaluation of model cities, community health, community corporations,  
decentralized government. Practice issues: program design, federal  
policy, consulting, training, participation, decision making process,  
economic feasibility. Future models.  
Prerequisites: grad st & cons instr.  
Current Offerings: http://uwm.edu/schedule

URB STD 741 Introduction to Metropolitan Development  
3 cr. Graduate.  
Preview to metropolitan development from an analytical viewpoint.  
Emphasis on the quantitative tools and conceptual framework necessary  
to interpret phenomena in a metropolitan area.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

URB STD 770 The Law and the American City  
3 cr. Graduate.  
Legal environment of american cities; powers of municipal corporations;  
relations of municipalities to state and federal governments as controlled  
by constitutions, statutes, and judicial decisions; special government  
units; local authorities and bill of rights limitations.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

URB STD 840 Community Health Planning  
3 cr. Graduate.  
Examination of processes of planning for delivery of integrated systems  
of health services to the urban community. Social, economic, political and  
organization factors are discussed and interrelated.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

URB STD 841 Health Policy in Urban Society  
3 cr. Graduate.  
Emerging health policy in modern society. Emphasis on the uncertainty of  
goals, contending interest, and the urban context.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

URB STD 888 Candidate for Degree  
0 cr. Graduate.  
Available for master’s students who must meet minimum credit load  
requirement.  
Prerequisites: grad st.  
Course Rules: Fee for 1 cr assessed.  
Last Taught: Spring 2017, Fall 2016, Fall 2014, Summer 2013.  
Current Offerings: http://uwm.edu/schedule
URB STD 890 Urban Social Institutions Institute: 3 cr. Graduate.
Interdisciplinary study of selected urban and metropolitan problems. Focuses on the analysis of forces shaping the metropolitan milieu.
Prerequisites: grad st or cons UrbInst coord.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

URB STD 901 Seminar: Urban Social Structure 3 cr. Graduate.
Comprehensive analysis of the emergence and institutionalization of cultural and social patterns in urban settings; and future American urban social structures.
Prerequisites: grad st.
Course Rules: Sociol 901 & Urb Std 901 are jointly-offered & count as repeats of one another.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

URB STD 913 Seminar in Urban Political Process 3 cr. Graduate.
Analysis of the forces and processes that shape urban political life, with particular emphasis on patterns of government, political culture, power structures, and civic participation in urban and metropolitan communities.
Prerequisites: grad st.
Course Rules: Pol Sci 913 & Urb Std 913 are jointly offered; they count as repeats of one another.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

Methodological orientations and techniques in urban studies: philosophy of science, conceptualization measurements, research designs, data collection, data analysis.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

URB STD 927 Urban Internship 2-3 cr. Graduate.
Advanced application and analysis of theory and acquired skills in supervised agency assignment.
Prerequisites: grad st.
Course Rules: Retakable to 6 cr max.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

URB STD 939 Urban Lifestyle and Holistic Health Care 3 cr. Graduate.
Examines the implications of urban life style for health promotion and protection with special emphasis on developing appropriate health maintenance modalities.
Prerequisites: Urb Std 639(P) or 841(P).
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

URB STD 945 The Internal Structure of the City 3 cr. Graduate.
The interaction of forces responsible for the evolution of the city as a spatial form and the allocation of economic and social activity within the spatial configuration.
Prerequisites: grad st.
Course Rules: Geog 945 & Urb Std 945 are jointly-offered; they count as repeats of one another.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

URB STD 965 Municipal Management 3 cr. Graduate.
The political, social, and economic contexts in which the urban manager functions, with an emphasis on managing municipal service delivery and resources.
Prerequisites: grad st.
Course Rules: Pub Adm 965(Pol Sci 965) & Urb Std 965 are jointly offered; they count as repeats of one another.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

Historical analysis of the current problems of housing, race relations, the powers and functions of municipal government, law enforcement, and city planning in the United States.
Prerequisites: grad st.
Course Rules: Hist 971 & Urb Std 971 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

URB STD 979 Qualitative Research Methods 3 cr. Graduate.
Seminar on logic, design, and presentation of social science research. Inductive and qualitative methods, theory construction, and ethics and procedures of research in natural settings.
Prerequisites: grad st.
Course Rules: Sociol 979 & Urb Std 979 are jointly-offered; they count as repeats of one another.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

URB STD 980 Growth of Urban Society 3 cr. Graduate.
Seminar in historical, social, and ecological growth and development of urban agglomerations. Comparative framework will be used to examine the urban process.
Prerequisites: grad st.
Course Rules: Hist 980 & Urb Std 980 are jointly offered; they count as repeats of one another.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

URB STD 981 Argument in Urban Studies Scholarship 3 cr. Graduate.
Reading, recapitulating, critiquing, and writing urban-focused social science argument.
Prerequisites: grad st.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)
URB STD 982 Advanced Quantitative Analysis
3 cr. Graduate.
Evaluation of different methods of generating data and their applications to the analysis of public policies and programs.
Prerequisites: grad st; min. score of 85 on dept diagnostic exam.
Course Rules: Sociol 982 & Urb Std 982 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2016, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

URB STD 983 Contemporary Urban Social Structure and Change
3 cr. Graduate.
Range of research issues conceptualized in terms of major categorical and more intentional social structures that bear on urban social actions.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

URB STD 984 Research Design for Urban Studies
3 cr. Graduate.
Structural research problem in which doctoral students can master research techniques needed in pursuing dissertation and later in career research.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2015, Spring 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

URB STD 987 Urban Social Control
3 cr. Graduate.
Graduate seminar introducing concepts of social control, pervasiveness of social control, and how social control is maintained in urban environments.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

URB STD 988 Seminar in Urban Social Institutions:
3 cr. Graduate.
Historical and sociological forces shaping selected urban issues and social institutions.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

URB STD 990 Master's Research or Thesis
1-3 cr. Graduate.
Research or thesis work for students in the master's program in Urban Studies.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

URB STD 991 Doctoral Research or Dissertation
1-6 cr. Graduate.
Research or dissertation work for students in the doctoral program in Urban Studies.
Prerequisites: grad st.
Course Rules: Retakable.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

URB STD 998 Independent Study for Master's Students
1-3 cr. Graduate.
Independent study in a subject area of special need or interest after consultation with a faculty member.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule

URB STD 999 Independent Study for Doctoral Students
1-3 cr. Graduate.
Independent study in a subject area of special need or interest after consultation with a faculty member.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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</thead>
<tbody>
<tr>
<td>Jasmine Alinder</td>
<td>Associate Professor (History)</td>
<td>PhD</td>
<td>University of Michigan</td>
<td>✔</td>
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</tr>
<tr>
<td>Margo J. Anderson</td>
<td>Distinguished Professor (History)</td>
<td>PhD</td>
<td>Rutgers University</td>
<td></td>
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<tr>
<td>Anne Bonds</td>
<td>Assistant Professor (Geography)</td>
<td>PhD</td>
<td>University of Washington</td>
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<tr>
<td>Marcus Britton</td>
<td>Associate Professor (Sociology)</td>
<td>PhD</td>
<td>Northwestern University</td>
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<tr>
<td>Tina L. Freiburger</td>
<td>Associate Professor (Criminal Justice)</td>
<td>PhD</td>
<td>Indiana University of Pennsylvania</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Rina Ghose</td>
<td>Associate Professor (Geography)</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
<td>✔</td>
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<tr>
<td>Donald E. Green</td>
<td>Associate Professor (Sociology)</td>
<td>PhD</td>
<td>University of Minnesota</td>
<td></td>
<td>✔</td>
</tr>
</tbody>
</table>
### Contact Information
Bolton Hall, 702

**Phone:** (414) 229-4751

### Urban Studies, BA

The Urban Studies major draws from classes in sociology, geography, history, political science, economics, urban studies, and urban planning to explore issues related to cities, suburban communities and metropolitan regions such as transportation, education, housing, population shifts, crime, discrimination, and more.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Degree</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Harris</td>
<td>Senior Lecturer (Urban Studies)</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
</tr>
<tr>
<td>Ryan Holifield</td>
<td>Associate Professor (Geography)</td>
<td>PhD</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>Lingqian (Ivy) Hu</td>
<td>Associate Professor (Architecture and Urban Planning)</td>
<td>PhD</td>
<td>University of Southern California</td>
</tr>
<tr>
<td>Douglas M. Ihrke</td>
<td>Professor (Public and Nonprofit Administration)</td>
<td>PhD</td>
<td>Northern Illinois University</td>
</tr>
<tr>
<td>Jennifer R. Jordan</td>
<td>Associate Professor (Sociology)</td>
<td>PhD</td>
<td>University of California-San Diego</td>
</tr>
<tr>
<td>Marc V. Levine</td>
<td>Professor (History)</td>
<td>PhD</td>
<td>University of Pennsylvania</td>
</tr>
<tr>
<td>Genevieve McBride</td>
<td>Professor Emerita (Geography)</td>
<td>PhD</td>
<td>University of Wisconsin - Madison</td>
</tr>
<tr>
<td>Linda McCarthy</td>
<td>Associate Professor (Geography)</td>
<td>PhD</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>Stacey J. Oliker</td>
<td>Associate Professor Emerita (Sociology)</td>
<td>PhD</td>
<td>University of California - Berkeley</td>
</tr>
<tr>
<td>Joel Rast</td>
<td>Associate Professor, Chair (Political Science)</td>
<td>PhD</td>
<td>University of Oregon</td>
</tr>
<tr>
<td>Lex Renda</td>
<td>Associate Professor (History)</td>
<td>PhD</td>
<td>University of Virginia</td>
</tr>
<tr>
<td>Aki Roberts</td>
<td>Associate Professor (Sociology)</td>
<td>PhD</td>
<td>University of New Mexico</td>
</tr>
<tr>
<td>Joseph A. Rodríguez</td>
<td>Associate Professor (History)</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
</tr>
<tr>
<td>Marie Sandy</td>
<td>Associate Professor (Educational Policy and Community Studies)</td>
<td>PhD</td>
<td>Claremont Graduate University</td>
</tr>
<tr>
<td>Robert Schneider</td>
<td>Assistant Professor (Architecture)</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
</tr>
<tr>
<td>Aaron Schutz</td>
<td>Professor (Educational Policy and Community Studies)</td>
<td>PhD</td>
<td>University of Michigan-Ann Arbor</td>
</tr>
<tr>
<td>Amanda Seligman</td>
<td>Professor (History)</td>
<td>PhD</td>
<td>Northwestern University</td>
</tr>
<tr>
<td>Arijit Sen</td>
<td>Associate Professor (Architecture)</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
</tr>
<tr>
<td>Paru R. Shah</td>
<td>Associate Professor (Political Science)</td>
<td>PhD</td>
<td>Rice University</td>
</tr>
<tr>
<td>Kristin Sziarto</td>
<td>Associate Professor (History)</td>
<td>PhD</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>Chia Youyee Vang</td>
<td>Professor (History)</td>
<td>PhD</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>William Vélez</td>
<td>Professor Emeritus (Sociology)</td>
<td>PhD</td>
<td>Yale University</td>
</tr>
<tr>
<td>Frank H. Wilson</td>
<td>Professor Emeritus (Sociology)</td>
<td>PhD</td>
<td>University of Michigan - Ann Arbor</td>
</tr>
<tr>
<td>Erin Winkler</td>
<td>Associate Professor (Africology)</td>
<td>PhD</td>
<td>University of California-Berkeley</td>
</tr>
</tbody>
</table>

The Department of Urban Studies develops students analytical and critical thinking abilities through an examination of the history and growth of urban centers and the challenges they face today and into the future. Our faculty includes international specialists, but much of our curriculum focuses on American cities, and Milwaukee in particular. Our home city is unique, vibrant, and a wonderful place for hands-on study and research.

Because of their interest in urban populations and problem-solving, many graduates work in the areas of community development, land-use planning, public works, community organization, housing policy development and implementation, public education administration, social services, construction management, public health, journalism and fund-
raising. Entry-level roles can include tasks ranging from research to planning to program implementation to customer support.

Students in Urban Studies take courses in a variety of disciplines with elective classes that reflect their specific interests and goals. Classes may come from the History Department, Sociology, Political Science, Economics, and more. An internship or study abroad experience is a popular option for students to gain real-world experience working in urban environments. We believe so strongly that experiential learning is an essential part of an urban studies education that we require a service learning experience for all of our majors. An undergraduate certificate in Urban Studies is also available for students seeking a program that is closer to a minor.

Requirements
Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Oral and Written Communication</strong></td>
<td></td>
</tr>
<tr>
<td>Part A</td>
<td></td>
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<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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<tr>
<td>Part B</td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
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</table>

**Quantitative Literacy**

<table>
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<tr>
<th>Part A</th>
<th>Select one of the following:</th>
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<tbody>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Part B  | Course designated as QL-B; may be completed through a major-specific course requirement |         |

**Arts**

Select 3 credits

**Humanities**

Select 6 credits

**Social Sciences**

Select 6 credits

**Natural Sciences**

Select 6 credits (at least two courses including one lab)

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

**College of Letters & Science Requirements**

I. **English Writing Requirement**

Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. **Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
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</tbody>
</table>

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
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<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
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<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
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<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
</tbody>
</table>
III. Foreign Language Requirement
Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### Code | Title | Credits
--- | --- | ---
成功的完成第四个学期的大学课程或等同语言(包含美国手语) | | 0-18

Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language)

Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

IV. International Requirement
See Approved Courses for the L&S International Requirement (p. 1169) for course options.

### Code | Title | Credits
--- | --- | ---
成功完成的第四个学期的大学课程或等同语言(包含美国手语) | | 9

Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

### Code | Title | Credits
--- | --- | ---
Arts | Select 3 credits | 3

Humanities

Note: This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. The courses listed here will satisfy the QL-B requirement.

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Urban Studies Major Requirements
Four required urban studies courses form the foundation of the major. URB STD 150, a core course in which students conduct service learning by working in an urban organization or agency; one of two urban studies survey courses; a theory course on urbanism and urbanization; and a capstone course (URB STD 600) taken in the senior year. Students also take a statistics course, which is a standard requirement for social science majors. In addition, students complete five elective courses selected from urban studies and approved courses in the affiliated areas. Student internships (URB STD 289 or URB STD 489) are encouraged strongly. Students also are encouraged to participate in and present at various urban studies-sponsored events, such as the annual Urban Studies Student Research Forum conference and the Henry W. Maier State of Milwaukee Summit, and to contribute to the ejournal (currently, each issue includes one paper from an undergraduate).

To declare a major in Urban Studies, students make an appointment with the Urban Studies Associate Director in order to complete the “declaration of major” form.
**Course of Study**

The Urban Studies major requires a minimum of 30-31 credits, including at least 18 credits in the College of Letters and Science with coursework from at least two L&S departments. No more than 9 credits in a single curricular area outside of urban studies may count toward the major. SOCIOL 377, which is jointly offered in the Urb Std curricular area, will count as an Urb Std course for this purpose. Students must complete at least 15 credits in upper-division (numbered 300 and above) L&S courses for the major in residence at UWM. In addition, students must attain a minimum GPA of 2.500 in all UWM credits attempted for the major. The College of Letters and Science also requires that students attain a minimum GPA of 2.500 in all UWM credits attempted for the major. All credits counted as Urb Std courses for this purpose. Students must complete at least 15 credits in urban studies approved by the program director. (No more than nine credits from the same department outside of urban studies may apply to the 30 credits approved by the program director. (No more than nine credits from the same department outside of urban studies may apply to the 30-credit minimum in the major.)

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB STD 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 360</td>
<td>Perspectives on the Urban Scene: Exploring the Urban Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

**Statistics**

Select one of the following:

- GEOG 247: Quantitative Analysis in Geography
- HIST 595: The Quantitative Analysis of Historical Data
- POL SCI 390: Political Data Analysis
- SOCIOL 261: Introduction to Statistical Thinking in Sociology

Or equivalent course approved by the program director

**Theory**

- SOCIOL/URB STD 377: Urbanism and Urbanization

**Capstone**

- URB STD 600: Capstone Seminar in Urban Studies (satisfies L&S research requirement)

**Electives**

Select 15 credits (see below)

**Total Credits:** 30-31

**Electives**

15 credits selected from the following courses or other appropriate courses approved by the program director. (No more than nine credits from the same department outside of urban studies may apply to the 30- or 31-credit minimum in the major.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>URB STD</td>
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<tr>
<td>URBPLAN</td>
<td>All U and U/G courses</td>
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<tr>
<td>AFRICOL 125</td>
<td>Economics of the Black Community</td>
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<td>AFRICOL 300</td>
<td>Urban Violence</td>
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<td>AFRICOL 319</td>
<td>African American Urban History</td>
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<td>AFRICOL 417</td>
<td>Race, Class and Gender in Southern Africa</td>
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<td>ARCH 190</td>
<td>Special Topics:</td>
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<td>CRM JST 291</td>
<td>Current Issues in Criminal Justice:</td>
<td>1-3</td>
</tr>
<tr>
<td>CRM JST 370</td>
<td>Criminal Justice Administration</td>
<td>3</td>
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<tr>
<td>ED POL 111</td>
<td>Introduction to Community Change and Engagement</td>
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<tr>
<td>ED POL 113</td>
<td>The Milwaukee Community</td>
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<tr>
<td>ED POL 114</td>
<td>Community Problems</td>
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<tr>
<td>ED POL 203</td>
<td>Communities and Neighborhoods in America</td>
<td>3</td>
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<td>ED POL 501</td>
<td>Community Change and Engagement</td>
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<td>ED POL 630</td>
<td>Race and Public Policy in Urban America</td>
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<td>GEG 114</td>
<td>Geography of Race in the United States</td>
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<tr>
<td>GEG 140</td>
<td>Our Urban Environment: Introduction to Urban Geography</td>
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<tr>
<td>GEG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td>3</td>
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<tr>
<td>GEG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEG 464</td>
<td>Environmental Problems</td>
<td>3</td>
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<td>GEG 520</td>
<td>Physical Geography of the City</td>
<td>3</td>
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<td>GEG 540</td>
<td>Globalization and the City</td>
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<td>GEG 564</td>
<td>Urban Environmental Change and Social Justice</td>
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<td>GEG 625</td>
<td>Intermediate Geographic Information Science</td>
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<td>HIST 192</td>
<td>First-Year Seminar: (Living in Ancient Rome or The Burbs: History of American suburbs)</td>
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<tr>
<td>HIST 404</td>
<td>Topics in American History: (Big City Life Viewed Through HBO’s The Wire or A Tale of Two Cities: Milwaukee and Los Angeles)</td>
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<tr>
<td>HIST 436</td>
<td>Immigrant America Since 1880</td>
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<tr>
<td>HIST 440</td>
<td>History of the American Working Classes</td>
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<td>HIST 446</td>
<td>African Americans Since the Civil War</td>
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<td>HIST 450</td>
<td>Growth of Metropolitan Milwaukee</td>
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<td>HIST 460</td>
<td>The History of Poverty in America</td>
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<td>HIST 463</td>
<td>History of the American City</td>
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<td>PH 319</td>
<td>Introduction to Health Disparities</td>
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<td>POL SCI 213</td>
<td>Urban Government and Politics</td>
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<tr>
<td>POL SCI 243</td>
<td>Public Administration</td>
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<tr>
<td>POL SCI 387</td>
<td>Topics in American Politics: (Municipal Finance)</td>
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<td>POL SCI 444</td>
<td>Politics and the Bureaucracy</td>
<td>3</td>
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<td>POL SCI 450</td>
<td>Urban Political Problems</td>
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<td>POL SCI 452</td>
<td>Administrative Law</td>
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<td>PUB ADM 243</td>
<td>Public Administration</td>
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<tr>
<td>PUB ADM 452</td>
<td>Administrative Law</td>
<td>3</td>
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<tr>
<td>SOCIOL 193</td>
<td>First-Year Seminar: (College in the City)</td>
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<tr>
<td>SOCIOL 224</td>
<td>American Minority Groups</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 235</td>
<td>Social Change in the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 307</td>
<td>Industrial Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 323</td>
<td>Perspectives on Latino Communities</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 324</td>
<td>Comparative Race Relations</td>
<td>3</td>
</tr>
</tbody>
</table>
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Current Students contact Senior Lecturer Jamie Harris, jmh@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu

Urban Studies, MS

The Master of Science degree program in Urban Studies provides students with a broad understanding of urban society and trains them in research techniques appropriate to the study of metropolitan communities. The course of study stresses the understanding of social processes and the analysis of social and economic policies affecting cities.

The PhD degree program in Urban Studies is designed to prepare individuals to obtain employment in academic departments, as well as government institutions and social agencies, and to conduct sophisticated research in the field of urban studies. The course of study emphasizes history, research methodology, and social science theory.

Urban Studies Programs offers two interdisciplinary graduate programs of study that are housed in the College of Letters and Science and led by social science faculty members from the Departments of Africology, Architecture, Criminal Justice, Educational Policy and Community Studies, Geography, History, Political Science, Nonprofit and Public Administration, Public Health, Sociology, and Urban Planning.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following requirement to be considered for admission:

- Undergraduate major in one of the social sciences or experience in relevant occupational roles such as planning, community organization or social work.
- Two letters of recommendation from persons familiar with the applicant's academic ability. Recommendation forms may be obtained online from the Urban Studies Programs website (http://www4.uwm.edu/letsci/urbanstudies/graduate/apply.cfm).
must pass an oral examination based on the paper or thesis. Students who will serve as the paper or thesis examination committee. The student whom cannot be from the same department and must be USP faculty) faculty advisor, must assemble a committee of three faculty (two of

Regardless of the option chosen, the student, in consultation with the

depth than a master's paper. Students should refer to Master's Thesis

A master's paper or thesis is required to receive the MS degree in Urban

Students in the MS/MLIS program follow all of the requirements and standards as described in this section of the Bulletin with the following joint exceptions: 21 of the 24 credits, including the optional 3 credits for a master's thesis, required for the Urban Studies portion of the joint degree are taken within USP. All courses in related areas and any exceptions to the 21 credit rule must be reviewed by the Coordinator of Urban Studies. All courses selected are expected to be consistent with the objectives of the Urban Studies program.

Urban Studies

The minimum degree requirement is 30 graduate credits. All Urban Studies students are required to take a core curriculum of 15 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 91</td>
<td>Seminar: Urban Social Structure</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 913</td>
<td>Seminar in Urban Political Process</td>
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</tr>
<tr>
<td>URB STD 945</td>
<td>The Internal Structure of the City</td>
<td></td>
</tr>
<tr>
<td>URB STD 971</td>
<td>Seminar on the History of American Urban Problems</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 15

Paper or Thesis

A master's paper or thesis is required to receive the MS degree in Urban Studies. A master's paper may be developed from a seminar paper and should demonstrate conceptual ability and research competence in a sub-area of Urban Studies. It is expected that the master's paper will be prepared in a scholarly fashion conforming to the format characteristics of journal articles published in the chosen area of study.


Regardless of the option chosen, the student, in consultation with the faculty advisor, must assemble a committee of three faculty (two of whom cannot be from the same department and must be USP faculty) who will serve as the paper or thesis examination committee. The student must pass an oral examination based on the paper or thesis. Students may opt to enroll in URB STD 990 and earn up to 3 credits toward the MS degree for their paper/thesis research and writing.

Time Limit

The student must complete all degree requirements within five years of initial enrollment.

Urban Studies, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. **All degree requirements of each component must be satisfied.**
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

MLIS/MS Urban Studies

A Master of Science in Urban Studies/Master of Library and Information Science program to prepare students for positions as urban information specialists, 54 credits.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Credits and Courses

Students in the MS/MLIS program follow all of the requirements and standards as described in this section of the Bulletin with the following joint exceptions: 21 of the 24 credits, including the optional 3 credits for a master’s thesis, required for the Urban Studies portion of the joint degree are taken within USP. All courses in related areas and any exceptions to the 21 credit rule must be reviewed by the Coordinator of Urban Studies. All courses selected are expected to be consistent with the objectives of the Urban Studies program.

Urban Studies

The minimum degree requirement is 30 graduate credits. All Urban Studies students are required to take a core curriculum of 15 credits:
Urban Studies, PhD

The Master of Science degree program in Urban Studies provides students with a broad understanding of urban society and trains them in research techniques appropriate to the study of metropolitan communities. The course of study stresses the understanding of social processes and the analysis of social and economic policies affecting cities.

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>URB STD 921</td>
<td>Seminar: Research Methods in Urban Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following:

- URB STD 901 Seminar: Urban Social Structure
- URB STD 913 Seminar in Urban Political Process
- URB STD 945 The Internal Structure of the City
- URB STD 971 Seminar on the History of American Urban Problems

Total Credits 15

Paper or Thesis

A master's paper or thesis is required to receive the MS degree in Urban Studies. A master's paper may be developed from a seminar paper and should demonstrate conceptual ability and research competence in a sub-area of Urban Studies. It is expected that the master's paper will be prepared in a scholarly fashion conforming to the format characteristics of journal articles published in the chosen area of study.


Regardless of the option chosen, the student, in consultation with the faculty advisor, must assemble a committee of three faculty (two of whom cannot be from the same department and must be USP faculty) who will serve as the paper or thesis examination committee. The student must pass an oral examination based on the paper or thesis. Students may opt to enroll in URB STD 990 and earn up to 3 credits toward the MS degree for their paper/thesis research and writing.

Basic Required MLIS Courses

<table>
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<tr>
<th>Code</th>
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<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science</td>
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<tr>
<td>INFOST 511</td>
<td>Organization of Information</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 12

Select three of the following:

Select one of the following:

- URB STD 981 Argument in Urban Studies Scholarship
- URB STD 983 Contemporary Urban Social Structure and Change

Total Credits 18

Credits and Courses

Minimum degree requirement is 33 credits beyond the master's degree; these credits include core courses, a methodological specialization, a topical specialization, and a dissertation. At least 27 credits must be earned in UWM courses while in the doctoral program. Credits for the methodological specialization and the topical specialization combined must total at least 15 credits, with 6 credits from one area and 9 from the other. Students will decide, in consultation with their advisor, whether to focus more on methods or on topics. In consultation with their major professor and the program director, students must develop a plan of study, which should be filed in the USP office by the end of the second semester of enrollment.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/thesis-dissertation-formatting), hold a master's degree or the equivalent in a social science or a related field, and meet the criteria established by the Urban Studies Programs Faculty to be considered for admission:

1. Three letters of recommendation from persons familiar with the applicant's academic work. Recommendation forms may be obtained online from the link above.
2. A sample of the applicant's written work that demonstrates the applicant's ability to conduct independent social science research and/or the ability to critically analyze the work of others.
3. A letter of intent outlining the applicant's reasons for graduate study.
4. GRE scores.
5. A response to a question that elucidates the applicant's reasons for taking up the academic study of urban affairs and describes her/his intellectual ambitions in the field.
Methodological Specialization
Select 6-9 credits

Topical Specialization
Select 6-9 credits

Thesis
Select 6 credits in doctoral thesis or dissertation courses

Total Credits
30-37

1 Qualified students may be exempted from the quantitative competency/statistics course, but they must take an additional three credits of electives in methodological or topical tracks.

Methodological Specialization (6-9 credits)
Students must declare one specialization from the following list and take two to three courses, for a total of 6 to 9 credits. Credits taken in the methodological specialization and the topical specialization combined must total at least 15 credits.

A methodological specialization in GIS requires GEOG 547 to complete the statistical/quantitative core competency.

Geographical Information Systems (2 course minimum)
A methodological specialization in GIS requires GEOG 547/URB STD 982 and at least one additional statistical/quantitative course beyond the core competency. This course, selected in consultation with the student’s advisor, should support research objectives and dissertation goals. See the Graduate Program Director for a list of qualifying courses or online at: http://www4.uwm.edu/letsci/urbanstudies/graduate/phd/upload/CompletePHDStudentGuide.pdf.

A variety of specializations and qualifying courses are published annually on the Urban Studies website (http://uwm.edu/urban-studies/graduate). Students are required to take 6-9 credits at the 700 level or above in the specialization field, no more than 3 credits of which may be in independent study courses. With the approval of the major professor or program director, students may take up to 3 credits in U/G courses.

Thesis (6 credits)
A maximum of 6 credits in doctoral thesis or dissertation courses may be counted toward the 33 credits required for the degree.

Residence
The Ph.D. student may meet the residence requirement by completing 8 or more graduate credits in each of two consecutive semesters, exclusive of summer sessions, or by completing at least 6 graduate credits in each of three consecutive semesters, exclusive of summer sessions.

Doctoral Preliminary Examination
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree.

Dissertation
The candidate, working under the supervision of the major professor and the candidate’s dissertation committee, must write a dissertation which demonstrates ability to formulate a research topic and pursue original investigation.

Dissertation Defense
The candidate must, as a final step toward the degree, pass an oral examination in defense of the dissertation.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.
Urban Studies, Undergraduate Certificate

The Undergraduate Certificate in Urban Studies draws from classes in sociology, geography, history, political science, economics, urban studies, and urban planning to explore issues related to cities, suburban communities and metropolitan regions such as transportation, education, housing, population shifts, crime, discrimination, and more.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

Eligibility

The Urban Studies Undergraduate Certificate program is open to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who complete the requirements of the program successfully will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon successful completion of the program requirements.

Requirements

1. Completion of 18 credits in approved urban studies courses with a minimum GPA of 2.500.
2. Completion of URB STD 250 (Exploring the Urban Environment), URB STD 193 (First-Year Seminar), or URB STD 360 (Perspectives on the Urban Scene).
3. Of the 18 credits:
   a. 6 must be in the humanities;
   b. 6 in the social sciences; and
   c. 9 must be at the 300 level or above taken in residence at UWM. It is recommended that the student also complete one course in the natural sciences.
4. No more than 9 credits from any one department outside Urban Studies may count toward the certificate.
5. A maximum of 6 credits in independent study may be taken. In the senior year, a student may plan an independent study course to synthesize previous work in urban studies.
6. An internship in URB STD 289 or URB STD 489 is recommended highly.
7. While students may elect courses outside the College of Letters and Science to count toward the certificate, at least 12 credits must be completed in L&S courses, at least 6 of these at the 300 level or above.
8. Credits earned at other institutions in equivalent urban studies programs and accepted by UWM as transfer credits may count in partial fulfillment of the certificate requirements.

Urban Studies Approved Courses

The following courses in the College of Letters and Science are approved to count toward the Urban Studies Certificate. Each semester, the Advisory Committee will review and approve variable content course sections for the Certificate. Contact the Urban Studies Program for the most current list of approved courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AFRICOL 300</td>
<td>Urban Violence</td>
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<tr>
<td>AFRICOL 319</td>
<td>African American Urban History</td>
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<tr>
<td>AFRICOL 341</td>
<td>Black Politics and City Government</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 372</td>
<td>African-American Literary Movements: The Harlem Renaissance</td>
<td>3</td>
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<tr>
<td>ANTHRO 431</td>
<td>Cities and Culture</td>
<td>3</td>
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<tr>
<td>ARCH 584</td>
<td>Urban Landscape Architecture</td>
<td>3</td>
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<tr>
<td>ARTHIST 360</td>
<td>Modern Architecture II: The Rise of Modern Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 361</td>
<td>Modern Architecture III: Contemporary Architecture</td>
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<tr>
<td>ARTHIST 412</td>
<td>Cities and Sanctuaries of Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 425</td>
<td>The Age of Pilgrimage and Crusade: Romanesque Art and Architecture</td>
<td>3</td>
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<tr>
<td>ARTHIST 426</td>
<td>The Age of the Great Cathedrals: Gothic Art and Architecture</td>
<td>3</td>
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<tr>
<td>ARTHIST 431</td>
<td>Renaissance Architecture in Italy</td>
<td>3</td>
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<tr>
<td>ARTHIST 458</td>
<td>A Comparative History of Architecture and Urbanism:</td>
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<td>ARTHIST 459</td>
<td>American Architecture</td>
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<td>ARTHIST 462</td>
<td>Frank Lloyd Wright</td>
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<td>COMPLIT 230</td>
<td>Literature and Society:</td>
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<td>COMPLIT 232</td>
<td>Literature and Politics:</td>
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<td>CRM JST 370</td>
<td>Criminal Justice Administration</td>
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<td>DANCE 370</td>
<td>World Movement Traditions: (Hip Hop)</td>
<td>2-3</td>
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<tr>
<td>ED POL 113</td>
<td>The Milwaukee Community</td>
<td>3</td>
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<td>ED POL 114</td>
<td>Community Problems</td>
<td>3</td>
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<td>ED POL 203</td>
<td>Communities and Neighborhoods in America</td>
<td>3</td>
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<tr>
<td>ED POL 500</td>
<td>Sociology and Policy of Urban Communities and Schools</td>
<td>3</td>
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<td>ED POL 507</td>
<td>Action Research on Milwaukee Institutions</td>
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<tr>
<td>ENGLISH 248</td>
<td>Literature and Contemporary Life: (Mapping the City)</td>
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<td>ENGLISH 394</td>
<td>Theories of Mass Culture</td>
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<td>GEOG 114</td>
<td>Geography of Race in the United States</td>
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<td>Our Urban Environment: Introduction to Urban Geography</td>
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<td>GEOG 297</td>
<td>Study Abroad: Urban Environmental Changes in Guatemala</td>
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<td>Cities of the World: Comparative Urban Geography</td>
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<td>GEOG 497</td>
<td>Study Abroad: Urban Environmental Changes in Guatemala</td>
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<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td>3</td>
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<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td>3</td>
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<tr>
<td>GERMAN 647</td>
<td>Seminar on Themes and Motifs in German Literature: (Cities of the German-Speaking World or Stories from Urban Landscapes of Ireland and Germany)</td>
<td>3</td>
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<tr>
<td>GLOBAL 321</td>
<td>The Global City in History</td>
<td>3</td>
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<tr>
<td>GLOBAL 421</td>
<td>Cities in the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>HIST 192</td>
<td>First-Year Seminar: (Living in Ancient Rome or The Burbs: History of American Suburbs)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues: (Making of the American Ghetto)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
<td>3</td>
</tr>
<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
<td>3</td>
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<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
<td>3</td>
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<tr>
<td>HIST 371</td>
<td>Topics in European History: (Rome in the Age of Constantine – Society and Culture)</td>
<td>3</td>
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<tr>
<td>HIST 404</td>
<td>Topics in American History: (Big City Life Viewed Through HBO’s ‘The Wire’)</td>
<td>3</td>
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<tr>
<td>HIST 436</td>
<td>Immigrant America Since 1880</td>
<td>3</td>
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<tr>
<td>HIST 440</td>
<td>History of the American Working Classes</td>
<td>3</td>
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<tr>
<td>HIST 450</td>
<td>Growth of Metropolitan Milwaukee</td>
<td>3</td>
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<tr>
<td>HIST 460</td>
<td>The History of Poverty in America</td>
<td>3</td>
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<tr>
<td>HIST 463</td>
<td>History of the American City</td>
<td>3</td>
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<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td>3</td>
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<td>HIST 600</td>
<td>Seminar in History: (American Suburban History or Milwaukee and the World)</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 432</td>
<td>Urban Dialects</td>
<td>3</td>
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<tr>
<td>PHILOS 237</td>
<td>Technology, Values, and Society</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 355</td>
<td>Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 213</td>
<td>Urban Government and Politics</td>
<td>3</td>
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<tr>
<td>POL SCI 387</td>
<td>Topics in American Politics: (Municipal Finance)</td>
<td>3</td>
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<tr>
<td>POL SCI 450</td>
<td>Urban Political Problems</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 452</td>
<td>Administrative Law</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 206</td>
<td>Introduction to Social Welfare Policy</td>
<td>3</td>
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<tr>
<td>SOC WRK 630</td>
<td>Families and Poverty</td>
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<td>SOCIOL 193</td>
<td>First-Year Seminar: (College in the City)</td>
<td>3</td>
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<tr>
<td>SOCIOL 224</td>
<td>American Minority Groups</td>
<td>3</td>
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<td>SOCIOL 307</td>
<td>Industrial Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 323</td>
<td>Perspectives on Latino Communities</td>
<td>3</td>
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<td>SOCIOL 324</td>
<td>Comparative Race Relations</td>
<td>3</td>
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<td>SOCIOL 325</td>
<td>Social Change</td>
<td>3</td>
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<td>SOCIOL 330</td>
<td>Economy and Society</td>
<td>3</td>
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<td>SOCIOL 377</td>
<td>Urbanism and Urbanization</td>
<td>3</td>
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<tr>
<td>SOCIOL 450</td>
<td>Environmental Sociology</td>
<td>3</td>
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<tr>
<td>SOCIOL 472</td>
<td>Population and Society</td>
<td>3</td>
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<tr>
<td>SOCIOL 495</td>
<td>Seminar in Sociology: (International Urban Sociology)</td>
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<tr>
<td>SOCIOL 610</td>
<td>Reproduction of Minority Communities</td>
<td>3</td>
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<tr>
<td>THEATRE 305</td>
<td>The Theatrical Experience: (Out and About in Milwaukee)</td>
<td>3</td>
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<td>URBPLAN</td>
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<tr>
<td>WGS 489</td>
<td>Internship in Women’s and Gender Studies</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Contact Information**

Current Students contact Senior Lecturer Jamie Harris, jmh@uwm.edu  
Prospective Students contact a Letters & Science Admissions Counselor at  
(414) 229-7711 or let-sci@uwm.edu  
http://uwm.edu/urban-studies/undergraduate/certificate/
WOMEN’S AND GENDER STUDIES

Women’s and Gender Studies is an academic discipline that critically evaluates gender from an interdisciplinary perspective and challenges many traditional assumptions and theories about women that have excluded them from positions of power. It examines the practice and expression of gender in different societies and at different historical moments; it explores the various origins and articulations of gender differentiation; it traces the influence of gender expectations on individuals and it studies the interactions of gender and other differences in social, political, and cultural contexts. The feminist pedagogy used in Women’s and Gender Studies courses empowers all students to become active learners and social change agents through discussion, written work, collaborative projects, and practical involvement beyond the classroom.

Women’s and Gender Studies prepares students for careers in non-profit organizations, business, the creative arts, education, government and public policy, journalism, law, medicine, publishing, science, the social sciences, social work, and many other fields.

Programs

- Women’s and Gender Studies, BA (p. 1795)
- Women’s and Gender Studies, Graduate Certificate (p. 1799)
- Women’s and Gender Studies, MA (p. 1800)
- Women’s and Gender Studies, MA/Library and Information Science, MLIS (p. 1801)
- Women’s and Gender Studies, MA/Social Work, MSW (p. 1802)
- Women’s and Gender Studies, Minor (p. 1802)

Women’s and Gender Studies Courses

WGS 150 Multicultural America
3 cr. Undergraduate.
Cross-cultural and interdisciplinary study of U.S. ethnic and racial identities and experiences, with special attention paid to women's and gender issues.
Prerequisites: none.
Course Rules: Cultures and Communities Prog course; req'd service learning component.
General Education Requirements: HU, CD
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

WGS 192 First-Year Seminar:
3 cr. Undergraduate.
Specific topics are announced in the Schedule of Classes each time the class is offered.
Prerequisites: none.
Course Rules: Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

WGS 199 Independent Study
1-3 cr. Undergraduate.
Independent work supervised by Women's Studies faculty or staff member. Written proposal required prior to registration. For additional information, consult Wmns Prog or asst dir.
Prerequisites: 2.5 GPA; writ cons instr, Women's & Gender Studies prog dir & asst dean for SAS.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

WGS 200 Introduction to Women's and Gender Studies: A Social Science Perspective
3 cr. Undergraduate.
An interdisciplinary course with focus on social science approaches to the situation of women.
Prerequisites: none.
Course Rules: May not be taken for cr if WGS(Wmns) 201 or L&S-Hum 201 is also taken.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

WGS 201 Introduction to Women's and Gender Studies: A Humanities Perspective
3 cr. Undergraduate.
An interdisciplinary course with focus on humanities approaches to the situation of women.
Prerequisites: none.
Course Rules: May not be taken for cr if WGS(Wmns) 200 or L&S SS 200 is also taken.
General Education Requirements: HU
Current Offerings: http://uwm.edu/schedule

WGS 211 Foundations of Women's and Gender Studies Writing and Research
3 cr. Undergraduate.
Introductory exploration of the meaning and practice of feminist research, with an emphasis on critical reading, writing, and analytical skills.
Prerequisites: WGS(Wmns) 200(P) or 201(P).
Course Rules: Counts as repeat of Wgs (Wmns) 290 w/same topic.
Current Offerings: http://uwm.edu/schedule
WGS 290 Selected Topics in Women's and Gender Studies:
3 cr. Undergraduate.
Selected women's and gender studies issues and topics, limited to undergraduates.
Prerequisites: none.
Course Rules: Specific topics and add'l prereqs announced in Schedule of Classes each time course is offered. May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

WGS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

WGS 299 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: none; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Last Taught: Spring 2013.
Current Offerings: http://uwm.edu/schedule

WGS 300 Gender and Spirituality:
3 cr. Undergraduate.
Ways in which gender informs spiritual teachings and practices globally and historically; relationship between spiritual beliefs and the constructions of social, cultural, and political realities.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Current Offerings: http://uwm.edu/schedule

WGS 301 Queer Theory
3 cr. Undergraduate.
Queer theory and its contributions to the study of gender and sexuality.
Prerequisites: jr st.
Current Offerings: http://uwm.edu/schedule

WGS 302 Gendered Bodies:
3 cr. Undergraduate.
Feminist interdisciplinary approach to the human body; its life changes as socially constructed and conditioned by cultural ideas and practices of gender and other differences.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Spring 2018, Fall 2016, Spring 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

WGS 303 Feminist Activism and Movements:
3 cr. Undergraduate.
Feminist activism and women's social and political movements in a global and historical context.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2013, Spring 2013, Spring 2009.
Current Offerings: http://uwm.edu/schedule

WGS 304 Feminist Activism and Movements: Global Perspectives:
3 cr. Undergraduate.
Feminist activism and global movements in a historical and cultural context.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2013, Spring 2013, Spring 2009.
Current Offerings: http://uwm.edu/schedule

WGS 307 Global Feminisms:
3 cr. Undergraduate.
Interdisciplinary study of women and gender in international perspective, including topics such as work, religion, ideology, and UN conferences.
Prerequisites: jr st & WGS(Wmns) 200(P) or 201(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

WGS 308 Global Feminisms: Women's Activism in International Perspective
3 cr. Undergraduate.
Feminist activism and global movements in a historical and cultural context.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 6 cr max.
Last Taught: Fall 2017, Spring 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

WGS 380 Honors Seminar in the Social Sciences:
3 cr. Undergraduate.
Selected topics in women's studies from a social science perspective.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

WGS 381 Honors Seminar in the Humanities:
3 cr. Undergraduate.
Selected topics in women's studies from a humanities perspective.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

WGS 400 Global Feminisms
3 cr. Undergraduate/Graduate.
Interdisciplinary study of women and gender in international perspective, including topics such as work, religion, ideology, and UN conferences.
Prerequisites: jr st & WGS(Wmns) 200(P) or 201(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

WGS 401 Global Feminisms
3 cr. Undergraduate/Graduate.
Interdisciplinary study of women and gender in international perspective, including topics such as work, religion, ideology, and UN conferences.
Prerequisites: jr st & WGS(Wmns) 200(P) or 201(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

WGS 402 Capstone Seminar in Women's and Gender Studies:
3 cr. Undergraduate.
Capstone course for women's and gender studies majors and certificate students, focusing on student research on various topics pertaining to women such as 'Gender and Power.'
Prerequisites: sr st; 6 cr in women's and gender studies, including WGS(Wmns) 200(P) or 201(P).
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule

WGS 410 Feminist Theory
3 cr. Undergraduate/Graduate.
Interdisciplinary survey of theories that shape and inform women's studies and feminist scholarship.
Prerequisites: jr st; WGS(Wmns) 200(P) or 201(P); or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

WGS 411 Women's and Gender Studies Research Methods:
3 cr. Undergraduate/Graduate.
Interdisciplinary course with focus on women's and gender studies research methods, explored through selected topics such as 'Gendered Bodies.'
Prerequisites: jr st, WGS(Wmns) 200(P) or 201(P), & WGS(Wmns) 410(P) or equiv; or grad st.
Course Rules: May not be retaken for cr.
Current Offerings: http://uwm.edu/schedule
WGS 489 Internship in Women's and Gender Studies
1-3 cr. Undergraduate.
Application of advanced principles of Women's and Gender Studies in an appropriate organizational, educational, business, or political setting.
Prerequisites: jr st; WGS(Wmns) 200(P), 201(P), 500(P), or 501(P); 2.50 gpa & cons Women's and Gender Studies Prog dir.
Course Rules: One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

WGS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: Fall 2017, Spring 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

WGS 499 Ad Hoc:
1-6 cr. Undergraduate.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.
Prerequisites: jr st; add'l prereqs may be assigned to specific topic.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

WGS 500 Advanced Social Science Seminar in Women's and Gender Studies:
3 cr. Graduate.
Theoretical foundations of feminist research and exploration of the tools, methodology and analytical skills employed in interdisciplinary women's and gender studies scholarship.
Prerequisites: jr st; 6 cr in women's and gender studies.
Course Rules: May be retaken w/chg in topic to 9 cr combined max for WGS(Wmns) 500 & 501.
Current Offerings: http://uwm.edu/schedule

WGS 501 Advanced Humanities Seminar in Women's and Gender Studies:
3 cr. Undergraduate/Graduate.
Theoretical foundations of feminist research and exploration of the tools, methodology, and analytical skills employed in interdisciplinary women's and gender studies scholarship.
Prerequisites: jr st; 6 cr in women's and gender studies.
Course Rules: May be retaken w/chg in topic to combined max of 9 cr for WGS(Wmns) 500 & 501.
Last Taught: Fall 2017, Spring 2015, Fall 2013, Spring 2012.
Current Offerings: http://uwm.edu/schedule

WGS 535 Philosophical Topics in Feminist Theory:
3 cr. Undergraduate/Graduate.
Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised.
Prerequisites: jr st; a course in philos or women's and gender stds.
Course Rules: May be retaken w/chg in topic to a 6 cr max. Philos 535 & WGS(Wmns) 535 are jointly offered; with same topic, they count as repeats of one another.
Last Taught: Fall 2017, Fall 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

WGS 599 Topics in Women's and Gender Studies:
1-3 cr. Undergraduate/Graduate.
Specific topics, cr, and add'l prereqs announced in Schedule of Classes each time course is offered.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

WGS 699 Independent Reading
1-3 cr. Undergraduate.
Advanced independent work under supervision of a Wmns Stds faculty or instructional academic staff member. Students must submit study proposal. For more information, consult Wmns Stds Prog asst dir.
Prerequisites: jr st; 2.5 GPA; writ cons instr, Womens & Gender Studies Prog dir & asst dean for SAS.
Course Rules: May be retaken for cr.
Last Taught: Spring 2018, Fall 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

WGS 700 Feminist Issues and Scholarship
3 cr. Graduate.
Advanced introduction to feminist scholarship and research in multiple disciplines and introduction to the disciplinary history of Women's Studies.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

WGS 701 Advanced Global Feminisms
3 cr. Graduate.
Interdisciplinary graduate-level course focusing on women, men, and gender relationships in international perspective, including the social and cultural conditions within which they live.
Prerequisites: grad st
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

WGS 710 Advanced Feminist Theory
3 cr. Graduate.
Interdisciplinary graduate-level seminar on introductory themes, issues, and conflicts in feminist theory.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule
WGS 711 Advanced Women's and Gender Studies Research Methods
3 cr. Graduate.
Interdisciplinary graduate-level course with focus on Women's and Gender Studies research methods.
Prerequisites: grad st.
Course Rules: Not retakable.
Current Offerings: http://uwm.edu/schedule

WGS 799 Advanced Topics in Women's and Gender Studies:
1-3 cr. Graduate.
Advanced examination and analysis of selected Women's and Gender Studies issues and topics for graduate students.
Prerequisites: grad st.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

WGS 820 Women's and Gender Studies Graduate Practicum
3 cr. Graduate.
Internship, field experience, or related practical experience that provides students the opportunity to apply feminist theories and research methods in a practical context.
Prerequisites: grad st; WGS 710(P) & 711(P).
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

WGS 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: grad st.
Course Rules: Enroll for 1 cr; fee for 1 cr assessed. Student schedule will show 1N cr; this will be changed to 0 cr for grade report & permanent record.
Current Offerings: http://uwm.edu/schedule

WGS 990 Research and Thesis
1-3 cr. Graduate.
Reserved for research in connection with master's thesis.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

WGS 999 Advanced Independent Work
1-6 cr. Graduate.
Independent reading or project; topic selected in agreement with supervising professor.
Prerequisites: grad st; cons Wmns dir.
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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</thead>
<tbody>
<tr>
<td>Carolyn Eichner</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California, Los Angeles</td>
<td>✔</td>
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</tr>
<tr>
<td>Xin Huang</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of British Columbia</td>
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<td>✔</td>
</tr>
<tr>
<td>Cheryl Kader</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<tr>
<td>Gwynne Kennedy</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Pennsylvania</td>
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</tr>
<tr>
<td>Anna Mansson McGinty</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Lund University, Sweden</td>
<td></td>
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</tr>
<tr>
<td>Kathleen Miller-Dillon</td>
<td>Assistant Chair</td>
<td>MA</td>
<td>University of Wisconsin-Milwaukee</td>
<td></td>
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</tr>
<tr>
<td>Kristin Pitt</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin</td>
<td></td>
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</tr>
<tr>
<td>Merry Wiesner-Hanks</td>
<td>Distinguished Professor</td>
<td>PhD</td>
<td>University of Wisconsin, Madison</td>
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</tr>
</tbody>
</table>

Contact Information

Women's and Gender Studies
CRT, 535

Phone: (414) 229-5918
wmns@uwm.edu

http://uwm.edu/womens-gender-studies/

Women's and Gender Studies, BA

Women's and Gender Studies is a discipline that critically examines gender and women's issues from an interdisciplinary perspective and challenges many traditional assumptions and theories. It examines the practice and expression of gender in different societies and at different historical moments.

Regardless of your gender, Women's and Gender Studies is crucial and relevant for anyone interested in working in criminal justice, social work, the non-profit sector, the arts, politics, business, and more. Students learn to look at the world and history through different perspectives and think about how gender and our perceptions of it impact culture, society, and daily interactions. It is a traditional liberal arts discipline where the knowledge and skills developed in the program can be applied to all types of career paths. Work experiences during college through internships, part-time jobs, and volunteer positions often shape career paths after graduation.

In 1974, the Office of Women's Studies opened its doors at UWM, becoming the first university in Wisconsin to establish a Women's Studies program. Today, undergraduate students at UWM can pursue a Women's and Gender Studies major or minor, and graduate students can choose from among three different Women's and Gender Studies MA options or a certificate to complement a different graduate degree program. Undergraduates benefit from the MA program's strength by working with and learning from graduate students and taking classes with the same exceptional faculty.

Students in Women's and Gender Studies master critical thinking, problem analysis, and communication through both classroom studies and service learning opportunities.
Students who are interested in the major should consult with Women’s and Gender Studies to make a formal declaration. For additional information, please contact Women’s and Gender Studies, located in CRT 535, by phone at (414) 229-5918, or on the web at http://uwm.edu/womens-gender-studies/.

Requirements
Course of Study – Bachelor of Arts Degree
Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

University General Education Requirements (GER)

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<th>Code</th>
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<td><strong>Oral and Written Communication</strong></td>
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<td><strong>Part A</strong></td>
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<td>ENGLISH 102</td>
<td>College Writing and Research (or equivalent)</td>
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</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as OWC-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Quantitative Literacy</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part A</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>Or equivalent course</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Part B</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course designated as QL-B; may be completed through a major-specific course requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credits (at least two courses including one lab)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>UWM Foreign Language Requirement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete Foreign Language Requirement through:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two years (high school) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two semesters (college) of a single foreign language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or equivalent</td>
<td></td>
</tr>
</tbody>
</table>

UWM Cultural Diversity Requirement
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement

College of Letters & Science Requirements
I. English Writing Requirement
Students must satisfy the English Writing Requirement by completing ENGLISH 102 with a grade of C or higher or by placing beyond ENGLISH 102 on the English Placement Test (EPT).

Note: This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

II. Mathematics and Formal Reasoning
To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a Math Placement Level of at least 30 or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 102</td>
<td>Mathematical Literacy for College Students II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Contemporary Applications of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Algebraic Literacy II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 or more credits in any 200-level or above Math course</td>
<td></td>
</tr>
<tr>
<td>AFRICOL 220</td>
<td>Introduction to Statistics in Africology</td>
<td></td>
</tr>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td></td>
</tr>
<tr>
<td>ATM SCI 500</td>
<td>Statistical Methods in Atmospheric Sciences</td>
<td></td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biostatistics</td>
<td></td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td></td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td></td>
</tr>
<tr>
<td>HIST 595</td>
<td>The Quantitative Analysis of Historical Data</td>
<td></td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHILOS 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>POL SCI 390</td>
<td>Political Data Analysis</td>
<td></td>
</tr>
<tr>
<td>POL SCI 392</td>
<td>Survey Research</td>
<td></td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td></td>
</tr>
</tbody>
</table>
V. Breadth Requirement
Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 3 credits</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td><strong>Social Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete 12 credits of L&amp;S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
</tbody>
</table>

VI. The Major
The College of Letters and Science requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement
Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (p. 1174).

Women's and Gender Studies Major Requirements
The Women's and Gender Studies major requires 36 credits drawn from Women's and Gender Studies core and cross-listed classes. At least 15 credits in the major must be taken in upper-division (numbered 300 or above) courses in residence at UWM. Completion of WGS 411 and either WGS 500 or WGS 501 satisfies the L&S research requirement. Students must maintain a GPA of at least 2.500 in UWM major courses attempted. In addition, the College requires that students attain a 2.500 GPA in all major courses attempted, including any transfer work. Majors should consult regularly with their advisor in Women's and Gender Studies about their course of study.

The major requires completion of the following courses offered through Women's and Gender Studies:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>WGS 200</strong> Introduction to Women's and Gender Studies: A Social Science Perspective</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>WGS 201</strong> Introduction to Women's and Gender Studies: A Humanities Perspective</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>WGS 211</strong> Foundations of Women's and Gender Studies Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>WGS 401</strong> Global Feminisms</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>WGS 410</strong> Feminist Theory</td>
<td>3</td>
</tr>
</tbody>
</table>
Letters & Science Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not, can receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (https://uwm.edu/letters-science/advising/contact-advising) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (https://uwmilwaukee.campus.eab.com) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email let-sci@uwm.edu.

When students declare a major, they receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

Honors in the College of Letters and Science

Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Current Students contact the department directly, wmns@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/womens-gender-studies/undergraduate/
Women's and Gender Studies, Graduate Certificate

The Graduate Certificate in Women’s and Gender Studies is designed for students enrolled in a graduate program in any field who wish to complement their advanced training and scholarly work with an additional specialization in Women’s and Gender Studies.

Research and study in Women's and Gender Studies helps students:

- identify and assess gender-based assumptions and biases and to recognize their social, cultural and individual consequences;
- analyze and integrate perspectives and bodies of knowledge across disciplines, and develop your critical thinking skills in ways that will complement and enhance your training in any other field;
- prepare for careers in non-profit organizations, businesses, the creative arts, education, government and public policy, journalism, law, social work, and more;
- become empowered to participate in public debate and act for social change.

To pursue this certificate, students must be enrolled in a graduate degree program or already hold a graduate degree. Acceptance to this graduate certificate also requires a minimum 2.75 GPA from the undergraduate degree.

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Eligibility and Admission

To pursue this certificate, students must be enrolled in a graduate degree program or already hold a graduate degree.

Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Certificate Requirements

Credits and Courses

The Graduate Certificate in Women’s and Gender Studies requires completion of 15 credits in approved courses with an overall GPA of 3.0. The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 401</td>
<td>Global Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory (G)</td>
<td>3</td>
</tr>
</tbody>
</table>

| Electives | Select 6 credits from a combination of WGS and approved cross-listed Graduate (G) or Undergraduate/Graduate (U/G) courses in other programs and departments | 6       |

Total Credits 15

1 Students who have previously earned undergraduate credit in this course will substitute, with approval of the DGS, a graduate course with a focus on globalization and women.

No more than 6 credits in U/G courses can apply toward the certificate, and a maximum of three credits in independent study may count toward the 15 credits required for the certificate. Thesis and research credits may not be counted toward the Certificate.

Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
Contact Information
Phone: (414) 229-5918
wmns@uwm.edu
http://uwm.edu/womens-gender-studies/graduate/certificate/

Women's and Gender Studies, MA

The MA in Women's and Gender Studies is designed for students who intend to pursue additional academic degrees and students who seek graduate credentials to further their career goals. The degree combines advanced Women's and Gender Studies courses in feminist theory, research methods, global feminisms, and selected topics with graduate-level courses in many disciplines. Over forty faculty members at UWM are Women's and Gender Studies affiliates and offer graduate courses that are cross-listed with Women's and Gender Studies.

Students completing an MA in Women's and Gender Studies will:
- Gain an understanding of Women's and Gender Studies as an interdisciplinary field of study and research.
- Demonstrate an advanced understanding of feminist theory and research methods.
- Develop critical thinking skills that will enable them to analyze competing perspectives and integrate various bodies of knowledge across academic boundaries, paying particular attention to gender-based assumptions and their consequences on individuals, social and cultural groups, and institutions.
- Demonstrate an awareness of women's diverse experiences based on factors such as age, race, sexuality, gender identity, class, religion, and ability status.
- Acquire the background necessary for entry into PhD programs in Women's and Gender Studies. The MA also prepares students for further graduate studies in many fields of the humanities, social sciences or professions, as well as career fields that require an advanced degree.

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
In addition to satisfying Graduate School requirements (http://uwm.edu/graduateschool/admission) for admission, applicants must provide these materials to be considered for admission:
- Three letters of recommendation from persons familiar with the applicant’s academic or professional work.
- A sample of the applicant’s written work that demonstrates the applicant’s critical thinking, research, and writing skills.
- A letter of intent explaining the applicant’s reasons for graduate study (the Graduate School Reasons Statement may be used).

GRE (http://uwm.edu/graduateschool/admission/#gre) scores are recommended, but not required. GRE (http://uwm.edu/graduateschool/admission/#gre) scores are required to apply for UWM fellowships or awards.

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses. Students are expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the program. No course credits earned in making up deficiencies may be counted toward the degree.

Financial Aid
Women’s and Gender Studies offers a graduate teaching assistantship. To apply, prospective students should include a statement describing previous teaching experience and/or reasons for teaching with application materials sent to Women’s and Gender Studies. Women’s and Gender Studies also has two need-based scholarships for which graduate students are eligible. Scholarship decisions are made each spring. Contact the program for applications.

The UWM Graduate School offers AOP (Advanced Opportunity Program) and Distinguished Graduate Student Fellowships (http://uwm.edu/graduateschool/types-of-funding/#fellowships).

Advising
Graduate advising is the responsibility of the Women’s and Gender Studies Director of Graduate Studies (DGS), who provides initial advising for students until they choose an advisor.

Credits and Courses
To earn an MA in Women’s and Gender Studies, students must complete 30 credits. Fifteen credits are in required Women’s and Gender Studies courses (15 with thesis option):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 401</td>
<td>Global Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>WGS 711</td>
<td>Advanced Women’s and Gender Studies Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one G or U/G WGS course ¹

| Electives | Select 15 credits in graduate-level courses with consultation with the Graduate Chair | 15 |

Total Credits

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
</tr>
</tbody>
</table>

¹ Excluding WGS 497, WGS 599, WGS 700, WGS 990, and WGS 999.

No more than six credits may be in undergraduate/graduate (U/G) courses, and no more than six transfer credits may apply. Students may not count more than three credits of WGS 999 toward the degree.

Thesis, Paper or Project, or Examination
Students complete the degree with a written thesis, paper or project, or comprehensive examination. All options include an oral defense.

The thesis is an academic research paper that demonstrates the student's ability to carry out an independent investigation, to analyze data (qualitative and/or quantitative), and to present the results in a clear, systematic form. The thesis includes a review of relevant scholarship and makes a contribution to the field.

The master's paper is a more limited, shorter scholarly product that often takes the form of a scholarly essay of publishable quality. The master's paper demonstrates the student's ability to formulate an argument,
analyze data, present results in a clear, systematic form, and show familiarity with relevant scholarship.

The master's project may be a creative or artistic project that is research-based or a research-based practical project.

The examination is a comprehensive written examination that addresses central texts and issues in the field of Women's and Gender Studies.

**Time Limit**

Students must complete the MA within five years of enrollment, in compliance with Graduate School time-to-degree requirements.

**Women's and Gender Studies, MA/Library and Information Science, MLIS**

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

**Degree Requirements**

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. All degree requirements of each component must be satisfied.
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**MLIS Component**

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

**MLIS/MA Women's and Gender Studies**

The coordinated program is designed to provide students with theoretical and practical exposure to evolving information retrieval and organization, and the field of feminist research and scholarship.

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

Students are admitted to both graduate programs separately and admission requirements (http://uwm.edu/graduateschool/admission) are consistent with those specified by the UWM Graduate School, the MA in Women's and Gender Studies program in the College of Letter & Science, and the MLIS program (http://uwm.edu/graduateschool/library-information-science) of the School of Information Studies.

**Credit and Courses**

Students accepted into this MA/MLIS program complete the following courses:

### Women's and Gender Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 701</td>
<td>Advanced Global Feminisms (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 711</td>
<td>Advanced Women's and Gender Studies Research Methods (G)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one WGS G or U/G course

<table>
<thead>
<tr>
<th>Electives</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 9 credits in WGS courses or cross-listed courses with Women's and Gender Studies (excluding InfoSt)</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Credits: 24

1 Excluding WGS 497, WGS 599, WGS 700, WGS 990, WGS 999.

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

### Library and Information Science

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 501</td>
<td>Foundations of Library and Information Science (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 511</td>
<td>Organization of Information (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 571</td>
<td>Information Access and Retrieval (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 799</td>
<td>Research Methods in Information Studies (G)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 18 credits in consultation with faculty advisor

The following are recommended electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 861</td>
<td>Seminar in Intellectual Freedom</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 891</td>
<td>Advanced Topics in Library and Information Science:</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Total Credits: 34-36

1 Six credits taken in WGS also count as electives for a total of 24 crs electives.

Total MLIS Credits: 30 (min of 33 with SOIS thesis option)

**Total Credits for Coordinated Program: 54 (57 with thesis)**

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

**Important**

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.
Time Limit
Students in the coordinated MA/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Women's and Gender Studies, MA/Social Work, MSW

The College of Letters and Science and the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice and the field of feminist research and scholarship. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students are admitted to both graduate programs separately, and admission requirements (http://uwm.edu/graduateschool/admission) are consistent with those specified by the UWM Graduate School, the MA in Women’s and Gender Studies program in the College of Letter and Science, and the MSW in Social Work (http://uwm.edu/graduateschool/social-work) of the Helen Bader School of Social Welfare.

Credit and Courses

Students accepted into this MA/MSW program complete the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 701</td>
<td>Advanced Global Feminisms (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 711</td>
<td>Advanced Women's and Gender Studies Research Methods (G)</td>
<td>3</td>
</tr>
<tr>
<td>Select one G or U/G WGS course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 9 credits in WGS courses or cross-listed courses with Women’s and Gender Studies (excluding Soc Wrk)

Total Credits 24

Minimum Total Credits for Coordinated Program: 52 (for those admitted to the MSW Social Work Advanced Curriculum).

Program Requirements

Time Limit
Students in the coordinated MA/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Women's and Gender Studies, Minor

Women's and Gender Studies is a discipline that critically examines gender and women's issues from an interdisciplinary perspective and challenges many traditional assumptions and theories. It examines the
practice and expression of gender in different societies and at different historical moments.

Regardless of your gender, Women's and Gender Studies is crucial and relevant for anyone interested in working in criminal justice, social work, the non-profit sector, the arts, politics, business, and more. Students learn to look at the world and history through different perspectives and think about how gender and our perceptions of it impact culture, society, and daily interactions. It is a traditional liberal arts discipline where the knowledge and skills developed in the program can be applied to all types of career paths. Work experiences during college through internships, part-time jobs, and volunteer positions often shape career paths after graduation.

In 1974, the Office of Women's Studies opened its doors at UWM, becoming the first university in Wisconsin to establish a Women's Studies program. Today, undergraduate students at UWM can pursue a Women's and Gender Studies major or minor, and graduate students can choose from among three different Women's and Gender Studies MA options or a certificate to complement a different graduate degree program. Undergraduates benefit from the MA program's strength by working with and learning from graduate students and taking classes with the same exceptional faculty.

Students in Women's & Gender Studies master critical thinking, problem analysis, and communication through both classroom studies and service learning opportunities.

Students who are interested in the minor should consult with Women's and Gender Studies to make a formal declaration. For additional information, please contact Women's and Gender Studies, located in CRT 535, by phone at (414) 229-5918, or on the web at http://uwm.edu/womens-gender-studies/.

### Requirements

Students who minor in Women's and Gender Studies are required to take 18 credits drawn from Women's and Gender Studies and cross-listed courses, at least 9 credits of which must be completed in upper-division (numbered 300 or above) courses in residence at UWM. In addition, students must attain a 2.500 GPA in all minor courses attempted, including any transfer work. The following courses are required for the minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>WGS 200</td>
<td>Introduction to Women's and Gender Studies: A Social Science Perspective</td>
<td>3</td>
</tr>
<tr>
<td>WGS 201</td>
<td>Introduction to Women's and Gender Studies: A Humanities Perspective</td>
<td>2</td>
</tr>
<tr>
<td>WGS 401</td>
<td>Global Feminisms</td>
<td>3</td>
</tr>
<tr>
<td>WGS 410</td>
<td>Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>18</td>
</tr>
</tbody>
</table>

### Contact Information

Current Students contact the Department directly, wmns@uwm.edu
Prospective Students contact a Letters & Science Admissions Counselor at (414) 229-7711 or let-sci@uwm.edu
http://uwm.edu/womens-gender-studies/undergraduate/
NURSING (COLLEGE OF)

The College of Nursing offers a Bachelor of Science degree (BS) in nursing, a Master of Nursing (MN) degree, and a Doctor of Nursing Practice (DNP) degree. These nursing programs are fully approved through the State of Wisconsin Board of Nursing and accredited by the Commission on Collegiate Nursing Education. The College also offers a Doctor of Philosophy degree (PhD) in nursing.

Vision
As an innovative, academic community, the University of Wisconsin-Milwaukee College of Nursing faculty, staff, students and alumni are renowned practitioners, scientists and leaders in creating bold and transformative solutions for advancing local, national and global health.

Mission
The University of Wisconsin-Milwaukee College of Nursing is a premier, urban, academic, collegial community that acts collaboratively with partners to:

- Prepare a diverse population of students to become science based, compassionate leaders through innovative, quality, educational programs for all settings and levels of practice.
- Conduct research and scholarship that advance science in nursing and health.
- Address health through evidence based practice and interprofessional collaboration; and
- Develop leaders who transform health care delivery and health policy.

Core Values
As a diverse Community of Scholars that values academic discourse and debate in a climate of civility, we live our core values and create opportunities to understand the perspectives of all others. We, the University of Wisconsin-Milwaukee College of Nursing community, demonstrate these core values in our learning, teaching, research, practice and service.

- Collaboration
- Creativity
- Integrity
- Human Dignity
- Diversity
- Accountability
- Social Justice
- Excellence

Programs

Undergraduate
- Nursing, BS (p. 1835)
- Nursing, RN to BS Program (p. 1844)

Master’s
- Nursing, MN (p. 1840)
- Sustainable Peacebuilding, MSP (p. 1846)

Doctoral
- Nursing Practice, DNP (p. 1830)
- Nursing Practice, DNP/Business Administration, MBA (p. 1833)
- Nursing, PhD (p. 1842)

Certificates
- Clinical Nurse Specialist, Graduate Certificate (p. 1821)
- Family Nurse Practitioner, Graduate Certificate (p. 1823)
- Global Health, Undergraduate Certificate (College of Nursing) (p. 1824)
- Health Professional Education, Graduate Certificate (College of Nursing) (p. 1826)
- Interprofessional Graduate Certificate in Public and Population Health (College of Nursing) (p. 1828)
- Trauma Informed Care, Graduate Certificate (College of Nursing) (p. 1848)

Requirements for Employment, Licensing, or Professional Organizations
Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students will be subject to a check of criminal conviction records, prior to acceptance of a student by the placement site. Drug testing is also a requirement prior to starting clinical, as is verification of health and immunization status. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

UW System Collaborative Nursing Program Courses

UWS NSG 365 Current Topics of Nursing:
1-6 cr. Undergraduate.
Current thought, issues and research in nursing and implications for practice.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken with change in topic to max of 12 cr.
Current Offerings: http://uwm.edu/schedule

UWS NSG 375 Genetics and Genomics for Health Professionals
3 cr. Undergraduate.
Relationships between science of genetics, study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients.
Prerequisites: Admis to RN to BSN prog.
Current Offerings: http://uwm.edu/schedule
UWS NSG 407 Foundations of Professional Nursing Practice
3 cr. Undergraduate.
Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced. Writing emphasis course.
Prerequisites: admits to BSN @ Home Prog or cons instr.
Course Rules: Counts as repeat of UWS NSG 341 & Nurs 407X.
Current Offerings: http://uwm.edu/schedule

UWS NSG 441 Chronic Care Management
3 cr. Undergraduate.
Exploration of interaction of biological, psychological, social, and environmental factors important to understanding management of chronic conditions at the individual, family, community, and societal levels.
Prerequisites: admits to BSN @ Home Prog or cons instr.
Course Rules: Counts as repeat of Nurs 441X.
Current Offerings: http://uwm.edu/schedule

UWS NSG 446 Research and Evidence-Based Practice
3 cr. Undergraduate.
Introduces the importance of research to improve clinical practice, strategies to evaluate the quality of research and evidence, and increase integration of research into practice.
Prerequisites: admits to BSN @ Home prog or cons instr, Math 105 (P).
Course Rules: Counts as repeat of UWS Nsg 434 & Nurs 446X.
General Education Requirements: QLB
Current Offerings: http://uwm.edu/schedule

UWS NSG 447 Leadership and Management
3 cr. Undergraduate.
Examines nursing leadership and management using relevant theories and concepts. Analyze decision-making in relation to communication, delegation, supervision and group process.
Prerequisites: admits to BSN @ Home Prog or cons instr.
Course Rules: Counts as repeat of UWS Nsg 444 & Nurs 454X.
Current Offerings: http://uwm.edu/schedule

UWS NSG 448 Mental Health Across the Care Continuum
3 cr. Undergraduate.
This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care.
Prerequisites: Prereq. admits to BSN @Home Prog or con instr.
Last Taught: Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

UWS NSG 453 Information Management and Healthcare Technology
3 cr. Undergraduate.
Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing’s role in healthcare technology.
Prerequisites: admits to BSN @ Home Prog or cons instr.
Course Rules: Counts as repeat of Nrs 453X.
Current Offerings: http://uwm.edu/schedule

UWS NSG 454 Community Health Nursing
3 cr. Undergraduate.
Nursing care of populations and communities to facilitate optimal health outcomes.
Prerequisites: admits to BSN @ Home Prog or cons instr.
Course Rules: Counts as repeat of UWS Nsg 444 & Nurs 454X.
Current Offerings: http://uwm.edu/schedule

Nursing Courses
NURS 101 Cultural Diversity in Health Care
3 cr. Undergraduate.
Enables student to conceptualize cultural diversity as a basic component of American society with implications for sensitivity and respect in health promotion and human relations.
Prerequisites: none.
General Education Requirements: SS, CD
Current Offerings: http://uwm.edu/schedule

NURS 102 Perspectives on Health Care Systems
2 cr. Undergraduate.
Provides students with an orientation to the complexity of health care, health care delivery systems, and the populations served.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

NURS 103 Freshman Seminar in Professional Nursing
1 cr. Undergraduate.
Designed to orient students to nursing through self-assessment, career exploration, problem solving, study skills, and goal setting.
Prerequisites: admits to Pre-Nursing prog.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

NURS 110 Introduction to Global Health
3 cr. Undergraduate.
An overview of the broad field of global health, using the U.N. Sustainable Development Goals as a guiding framework.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 172 Health and Health Care Practices
2 cr. Undergraduate.
Focuses on health, health care practices, personnel, and services related to obtaining reliable information on health care needs and practices, and available community services.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

NURS 190 Special Studies in Nursing
1-5 cr. Undergraduate.
Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 5 cr.
Current Offerings: http://uwm.edu/schedule
NURS 203 Human Growth and Development Across the Life Span
4 cr. Undergraduate.
Introduction to physical, cognitive, and psychosocial growth of human organism from conception through older adulthood with application to health care.
Prerequisites: Psych 101(P).
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 204 Global Maternal and Child Health: From Evidence to Action
3 cr. Undergraduate.
Critical issues impacting the health of mothers, newborns and children, using a global perspective and a life course analytical approach.
Prerequisites: none.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

NURS 205 Clinical Pharmacology
3 cr. Undergraduate.
The principles of pharmacology and administration; legislative controls; mechanisms of drug actions; contraindications; adverse and toxic effects and lifespan considerations.
Prerequisites: Nurs 320(C) or cons instr.
General Education Requirements: OWCB
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

NURS 211 Health Assessment
3 cr. Undergraduate.
Concepts and skills to comprehensively assess the health status of individuals. History taking, physical examination techniques, developmental, and other assessments.
Prerequisites: Admis to major or cons instr.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

NURS 251 Genetics and Genomics in Healthcare
2 cr. Undergraduate.
The relationship between the underlying science (genetics), the study of genomes (genomics) and the social, ethical and legal issues (genethics) in healthcare.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

NURS 262 Exploring Human Sexuality
3 cr. Undergraduate.
Historical and contemporary issues involving human sexuality as seen through the lenses of nursing, psychology, biology, and sociology.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

NURS 290 Special Studies in Nursing
1-5 cr. Undergraduate.
Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 5 cr.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

NURS 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in especially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken with change in topic.
Current Offerings: http://uwm.edu/schedule

NURS 299 Ad Hoc:
1-12 cr. Undergraduate.
Created expressly for offering in a specified enrollment period. Specific credits and additional prereqs, if any, will be specified in Schedule of Classes whenever course is offered.
Prerequisites: none.
Course Rules: May be retaken with change in topic.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

NURS 300 Introduction to Research Principles and Methods
2 cr. Undergraduate.
Introduction to the significance, principles, purpose, and methods of the research process in order to create good consumers of research literature.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

NURS 315 Nursing Science I: Concepts of Promoting and Maintaining Health
2 cr. Undergraduate.
Nursing science related to health promotion, disease prevention, and maintaining health; responses of individual and families in acute and community settings.
Prerequisites: admis to Nurs major.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

NURS 320 Concepts of Illness I
3 cr. Undergraduate.
Mechanisms, manifestations, diagnosis, and treatment of disease states for selected body systems.
Prerequisites: Bio Sci 101(P) & 203(P), Chem 103(P); or cons instr.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

NURS 321 Concepts of Illness II
3 cr. Undergraduate.
Mechanisms, manifestations, diagnosis and treatment of disease states for selected body systems. Continuation of Nurs 320.
Prerequisites: Nurs 320(P) or cons instr.
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule
NURS 326 Nursing Science II: Concepts of Aging and Long Term Health Care
3 cr. Undergraduate.
Identification and management of factors influencing and compromising health and functional ability of older adults and exploration of long-term health care in various settings.
Prerequisites: admis to Nurs major.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

NURS 327 Nursing Science III: Health Concepts-Women & Children
4 cr. Undergraduate.
Nursing science related to the acute, chronic, and health promotion care of women and children and their families in acute and community care settings.
Prerequisites: Nurs 211(P), 320(P), 321(C); 331(P)
Last Taught: Fall 2015, Summer 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 328 Nursing Science IV: Concepts of Health Care of the Adult
4 cr. Undergraduate.
Nursing science related to adults with acute and chronic health problems in both acute and community care settings. Individual and family responses.
Prerequisites: Nurs 321(C); 331(P).
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

NURS 331 Foundations of Clinical Practice I
5 cr. Undergraduate.
Introductory course includes communication, philosophy, theory, and decision making content, and psychomotor skills to be used as a base for planning and providing nursing care.
Prerequisites: admis to Nurs major.
Last Taught: Spring 2015, Fall 2014, Spring 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

NURS 334 Foundations of Clinical Practice II
3 cr. Undergraduate.
Refine clinical decision making skills within the nursing process, professional communication, and psychomotor skills necessary for helping clients needing nursing care.
Prerequisites: Nurs 205(C), 321(C); 331(P).
Last Taught: Fall 2015, Spring 2015, Fall 2014, Spring 2014.
Current Offerings: http://uwm.edu/schedule

NURS 351 Professional Role 1: Foundations of Professional Practice
3 cr. Undergraduate.
Exploration of selected foundational concepts and principles essential to the professional nursing role.
Prerequisites: admis to nurs major.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 352 Health and Illness Concepts 1: Introduction
3 cr. Undergraduate.
Introduction of selected foundational health and illness concepts essential to nursing practice.
Prerequisites: admis to nurs major.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 353 Clinical Practicum 1: Foundations
3 cr. Undergraduate.
Clinical practicum which introduces the application of foundational knowledge, skills, and attitudes in the provision of nursing care.
Prerequisites: admis to nurs major.
Current Offerings: http://uwm.edu/schedule

NURS 355 Current Topics of Nursing:
1-3 cr. Undergraduate.
Current thought, issues, and research in nursing and implications for practice.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken with topic change to a combined max of 12 cr for NURS 365.
Last Taught: Spring 2018, Fall 2015, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

NURS 365 Current Topics of Nursing:
1-3 cr. Undergraduate.
Current thought, issues, and research in nursing and implications for practice.
Prerequisites: jr st or cons instr.
Course Rules: May be retaken with topic change to a combined max of 12 cr for NURS 365.
Last Taught: Spring 2018, Fall 2015, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

NURS 373 Alternative and Complementary Therapies in Holistic Health Care - Theory
2 cr. Undergraduate.
Investigative theories underlying alternative and complementary therapies (CAT) commonly used in holistic Health Care.
Prerequisites: none.
Course Rules: Can be taken simultaneously with NURS 374.
Current Offerings: http://uwm.edu/schedule

NURS 374 Alternative and Complementary Therapies in Holistic Health Care - Field Work
1 cr. Undergraduate.
Experiential course with select alternative and complementary therapies (CAT) commonly used in holistic health care.
Prerequisites: none.
Course Rules: Can be taken simultaneously with NURS 373.
Current Offerings: http://uwm.edu/schedule

NURS 375 Genetics and Genomics for Health Professionals
3 cr. Undergraduate.
Emphasizes relationships between science of genetics, study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients.
Prerequisites: Admis to RN to BSN prog.
Current Offerings: http://uwm.edu/schedule

NURS 380 Honors Seminar:
3 cr. Undergraduate.
Selected topics in nursing and healthcare. May be retaken w/chg in topic to 9 cr max.
Prerequisites: soph st; Honors 200(P); cons Honors College dir.
General Education Requirements: SS
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 390 Special Studies in Nursing
1-5 cr. Undergraduate.
Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 5 cr.
Last Taught: Spring 2018, Spring 2016, Fall 2015, Summer 2015.
Current Offerings: http://uwm.edu/schedule
NURS 398 Health Assessment and Promotion in Nursing Practice
3 cr. Undergraduate.
Application of nursing concepts and skills to promote health and comprehensively assess the health status of individuals using a nursing framework.
Prerequisites: admis to nurs major.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 399 Concepts of Pathophysiology and Pharmacotherapeutics 1
4 cr. Undergraduate.
Pathophysiology and pharmacology concepts for nursing across the lifespan.
Prerequisites: admis to nurs major.
General Education Requirements: QLB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 400 Concepts of Pathophysiology and Pharmacotherapeutics: 2
4 cr. Undergraduate.
Pathophysiology and pharmacology concepts for nursing across the lifespan.
Prerequisites: Nurs 399(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 401 Global Patterns of Disease
3 cr. Undergraduate.
Global patterns of disease and epidemiological trends highlighting communicable, non-communicable diseases, injuries and outbreaks impacting the health of diverse populations.
Prerequisites: jr st; Nurs 110(P); or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 403 Practice, Research and Leadership Role Development
3 cr. Undergraduate.
Explore and evaluate role of the professional nurse as practitioner, researcher, manager and leader.
Prerequisites: Nurs 334(P), 442(C).
General Education Requirements: OWCB
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 415 Nursing Science V: Concepts of Community Health Care of Aggregates
3 cr. Undergraduate.
Nursing care of individuals, families and communities; aggregates and special populations in the community; roles of community health nurses.
Prerequisites: Nurs 334(P).
Last Taught: Spring 2016, Fall 2015, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 419 Concepts of Evidence-based Nursing Practice
3 cr. Undergraduate.
Introduction to an integration of concepts relevant to evidence-based nursing practice.
Prerequisites: Nurs 420(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 420 Professional Role 2: Provider of Care
3 cr. Undergraduate.
Examination of selected concepts and principles essential to the provision of patient care.
Prerequisites: Nurs 351(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 421 Health and Illness Concepts 2: Acute and Chronic Conditions
3 cr. Undergraduate.
Nursing care of individuals and families experiencing acute and chronic health conditions using a holistic approach.
Prerequisites: Nurs 352(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 422 Clinical Practicum 2: Acute & Chronic Conditions
3 cr. Undergraduate.
Clinical practicum focusing on providing nursing care for individuals and families with acute and chronic conditions.
Prerequisites: Nurs 353(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 430 Professional Role 3: Interprofessional Practice
3 cr. Undergraduate.
Analysis of factors contributing to collaboration within and among teams.
Prerequisites: Nurs 420(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 431 Health and Illness Concepts IV: Lifespan
3 cr. Undergraduate.
Integration of selected concepts in the care of individuals and families across the lifespan.
Prerequisites: Nurs 421(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 432 Health and Illness Concepts III: Population Health
3 cr. Undergraduate.
Promotion and improvement of the health of populations and communities.
Prerequisites: Nurs 431(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 433 Clinical Practicum 3: Population Health
3 cr. Undergraduate.
Clinical practicum focusing on applying concepts and providing population based nursing care to aggregates.
Prerequisites: Nurs 422(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 434 Nursing Informatics and Technology
3 cr. Undergraduate.
Basic concepts of informatics are introduced with focus on application to clinical practice to improve safety and quality of care.
Prerequisites: Nurs 419(P).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
NURS 440 Nursing Specialty
2 cr. Undergraduate.
Topics of current interest in nursing specialty areas.
Prerequisites: Nurs 442(P).
Course Rules: May be retaken w/chg in topic to 8 cr. max with cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

NURS 442 Nursing Practice I
8 cr. Undergraduate.
Clinical practice course for providing nursing care for adults and children experiencing acute and/or chronic health problems.
Prerequisites: Nurs 334(P) & 403(C); or cons instr.
Last Taught: Summer 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

NURS 443 Nursing Practice II
8 cr. Undergraduate.
Clinical practice course for providing nursing care to individuals, families, groups, and communities.
Prerequisites: Nurs 442(P) or cons instr.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

NURS 444 Capstone Practicum for Registered Nurses
3 cr. Undergraduate.
Synthesis of knowledge from current and past learning experiences and application of clinical decision making to provide comprehensive nursing care to individuals, families, groups, and communities.
Prerequisites: Prior to Fall, 2014: UWS Nsg 317(P), 341(P), 434(P), 437(P), & 444(P). Fall, 2014 and beyond: UWS Nsg/Nurs/Flex 407(P), 441(P), 446(P), 447(P), 453(P) & 454(P), English 102 (P).
Course Rules: Counts as repeat of Nurs 445X.
General Education Requirements: OWCB
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 448 Mental Health Across the Care Continuum
3 cr. Undergraduate.
This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

NURS 460 Legal Aspects of Nursing
2 cr. Undergraduate.
Current legal aspects and issues in nursing, including courts, licensure problems, legal status of nursing and health personnel, contracts, torts, negligence, crimes, and wills.
Prerequisites: jr st or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 475 Global Health: Ethics and Human Rights
3 cr. Undergraduate/Graduate.
Ethics and human rights issues related to disparities in financial, educational, technological, environmental, and political resources available to support healthy populations across the globe.
Prerequisites: jr st; Nurs 110(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 476 Professional Role 4: Leading in Complex Systems
3 cr. Undergraduate.
Synthesis of knowledge, skills, and attitudes for leading in complex healthcare environments.
Prerequisites: Nurs 430(P).
General Education Requirements: OWCB
Current Offerings: http://uwm.edu/schedule

NURS 477 Health and Illness Concepts 5: Complex
3 cr. Undergraduate.
Application of selected concepts to individuals/families with complex health and illness needs.
Prerequisites: Nurs 432(P).
Current Offerings: http://uwm.edu/schedule

NURS 478 Clinical Practicum 4: Clinical Intensive
3 cr. Undergraduate.
Practicum focusing on nursing care to individuals, groups, and families experiencing complex health care problems and life events throughout the lifespan.
Prerequisites: Nurs 433(P).
Current Offerings: http://uwm.edu/schedule

NURS 479 Clinical Practicum 5: Capstone
3 cr. Undergraduate.
Capstone clinical practicum focusing on care delivery, care coordination, leadership, and transition to practice.
Prerequisites: Nurs 478(P).
Current Offerings: http://uwm.edu/schedule

NURS 480 Transition to Professional Practice
3 cr. Undergraduate.
Exploration of the new graduate professional role to enable a smooth transition to the first registered nurse position. Course is delivered in hybrid format.
Prerequisites: Nurs 478(C) & 433(P).
Current Offerings: http://uwm.edu/schedule

NURS 490 Special Studies in Nursing
1-5 cr. Undergraduate.
Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.
Prerequisites: cons instr.
Course Rules: May be retaken to max of 5 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in especially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken with change in topic; max of 9 cr for grad students.
Current Offerings: http://uwm.edu/schedule
NURS 620 Global Food Security and Systems  
3 cr. Undergraduate/Graduate.  
An in-depth investigation of global food systems and their impact on food security and development.  
Prerequisites: jr st.  
Last Taught: Fall 2017, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

NURS 653 Foundations in Pathophysiology for Nursing Practice  
4 cr. Graduate.  
Mechanisms, manifestations, diagnosis and treatment of disease states for selected body systems as a foundation for nursing management of selected conditions.  
Prerequisites: Admis to Master of Nursing prog.  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

NURS 654 Health Assessment and Promotion  
3 cr. Graduate.  
Application of concepts and skills to comprehensively assess the health status of individuals using functional health patterns as a framework.  
Prerequisites: Admis to Masters in Nurs Prog or cons instr  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

NURS 657 Pharmacotherapeutics for Nursing Practice  
3 cr. Graduate.  
Pharmacologic and pharmacotherapeutic concepts in the management of patients with complex conditions and illnesses across the continuum of care.  
Prerequisites: Admis to Masters in Nurs Prog or cons instr  
Current Offerings: http://uwm.edu/schedule

NURS 670 Nursing Care of Adults and Older Adults I  
3 cr. Graduate.  
Nursing science related to health promotion, prevention, and illness management for adults and older adults within families, communities, and populations.  
Prerequisites: Admis to Masters in Nurs Prog, NURS 653 (C), NURS 657 (C)  
Current Offerings: http://uwm.edu/schedule

NURS 671 Nursing Care of Adults and Older Adults II  
3 cr. Graduate.  
Nursing science related to health promotion, prevention, and illness management for adults and older adults within families, communities, and populations.  
Prerequisites: Admis to Masters in Nurs Prog, NURS 654 (P), NURS 670 (P)  
Current Offerings: http://uwm.edu/schedule

NURS 672 Nursing Care of Women and Infants  
2 cr. Graduate.  
Nursing science related to care of women, infants, and families in institutional and community care.  
Prerequisites: Admis to Masters in Nurs Prog  
Last Taught: Fall 2017, Fall 2016, Spring 2015, Spring 2014.  
Current Offerings: http://uwm.edu/schedule

NURS 673 Nursing Care of Children and Families  
2 cr. Graduate.  
Nursing science related to care of children and families in acute, institutional, and community care settings.  
Prerequisites: Admis to Masters in Nurs Prog  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

NURS 674 Mental Health Nursing Care Across the Lifespan  
2 cr. Graduate.  
Nursing science, principles, and processes for the promotion of mental health and the prevention and management of mental illness across the lifespan.  
Prerequisites: Admis to Masters in Nurs Prog  
Current Offerings: http://uwm.edu/schedule

NURS 680 Nursing and Society  
4 cr. Graduate.  
Introduction to the nursing profession, its multifaceted role in society, and the abilities needed for professional nursing practice.  
Prerequisites: Admis to Masters in Nurs Prog  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

NURS 681 Professional Role in Health Care Systems  
3 cr. Graduate.  
Exploration and analysis of entry level professional nursing roles in health care systems.  
Prerequisites: Admis to Masters in Nurs Prog; NURS 680(P)  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

NURS 685 Clinical Reasoning  
5 cr. Graduate.  
Development and refinement of, and practice with, the clinical reasoning skills required for professional nursing practice.  
Prerequisites: NURS 653(P), 680(P), 657(C)  
Current Offerings: http://uwm.edu/schedule

NURS 686 Professional Nursing Practicum I  
3 cr. Graduate.  
Intensive practicum experience providing nursing care to individuals, families, and groups within diverse populations across the health care continuum.  
Prerequisites: Admis to Masters in Nurs Prog; NURS 685(P)  
Current Offerings: http://uwm.edu/schedule

NURS 688 Professional Nursing Practicum II  
4 cr. Graduate.  
Intensive practicum experience providing nursing care to individuals, families and groups within diverse populations across the health care continuum.  
Prerequisites: Admis to Masters in Nurs Prog, NURS 686 (P)  
Last Taught: Fall 2017, Fall 2016, Summer 2016, Fall 2015.  
Current Offerings: http://uwm.edu/schedule
NURS 705 Instructional Strategies for Patient Education
3 cr. Graduate.
Study of instructional strategies applicable in patient education; opportunity to select, develop and evaluate the effectiveness of particular strategies in individual and/or group situations.
Prerequisites: grad st or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 706 Clinical Outcomes Management and Information Systems
3 cr. Graduate.
Synthesis of advanced generalist nursing knowledge, processes and practices that influence point of care health outcomes related to health promotion, risk reduction, and illness management.
Prerequisites: Admis grad prog in nursing or cons instr.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

NURS 707 Advanced Pharmacology: Application to Advanced Nursing Practice
3 cr. Graduate.
Advanced knowledge related to use of pharmacotherapeutics in management of common health problems, nursing prescriptive authority, and development and use of clinical practice guidelines.
Prerequisites: grad st; admis to Nursing degree program; Nurs 753(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 708 Global Maternal and Child Health: From Evidence to Action
3 cr. Graduate.
This course will focus on critical issues impacting the health of mothers, newborns, and children, using a global and a life course analytic approach.
Prerequisites: Grad st.
Current Offerings: http://uwm.edu/schedule

NURS 709 Leading and Managing in Systems of Care
3 cr. Graduate.
Evaluation of emerging nursing leadership and management concepts, theories, and research within diverse healthcare systems.
Prerequisites: grad st; admis to grad prog in nursing or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 711 Economics of Health Care and Health Care Systems
3 cr. Graduate.
Use of economic theory, models and principles to analyze decision-making by individuals, providers, third-party payers and governments in health and health care.
Prerequisites: Counts as repeat of NURS 779 with similar topic.
Current Offerings: http://uwm.edu/schedule

NURS 712 Health Promotion Perspectives
3 cr. Graduate.
Nursing and inter-professional health promotion concepts including planning, delivery and evaluation of health promotion strategies at the point of care in diverse settings.
Prerequisites: grad st; admis grad prog in nursing or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 717 Community Health Nursing
3 cr. Graduate.
Nursing science related to the care of populations with focus on disease prevention and health promotion. Roles of community health nurses are explored.
Prerequisites: Admis to Masters in Nurs Prog; Nurs 727 (C)
Current Offerings: http://uwm.edu/schedule

NURS 720 Biostatistics and Applications for Nursing Practice
3 cr. Graduate.
Introduction to biostatistics with special emphasis on the identification, description, application, and interpretation of clinical data about nursing phenomena and nursing practice.
Prerequisites: grad st; undergrad statistics course w/ grade of B or better w/in last 5 yrs or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 721 Pathophysiology and Pharmacology for the Advanced Generalist
3 cr. Graduate.
Integration of pathophysiologic and pharmacologic therapy interventions for selected health conditions.
Prerequisites: Admis grad prog in nursing or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 723 Evidence-Based Care Management
3 cr. Graduate.
Analysis of evidence-based interventions and design of a program to address a priority issue in population health and health care delivery.
Prerequisites: grad st; Nurs 725(P)
Current Offerings: http://uwm.edu/schedule

NURS 725 Evidence Based Practice in Healthcare I
3 cr. Graduate.
Introduction to evidence based practice and research methods. Emphasis is on retrieval of information, critique and application in diverse health care practice settings.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

NURS 727 Epidemiology
3 cr. Graduate.
Study of the distribution and determinants of health and disease in populations including related methods and application.
Prerequisites: grad st; admis to UWM graduate degree program or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 728 Epidemiological Principles for Population Health
3 cr. Graduate.
Study of the distribution and determinants of health and disease in populations, including related methods and application.
Prerequisites: Admission to Doctor of Nursing Practice Program.
Current Offerings: http://uwm.edu/schedule
NURS 729 Organizational Systems
3 cr. Graduate.
Study of systems of healthcare delivery emphasizing emerging healthcare models, financing and regulation of healthcare and the creation and evaluation of effective healthcare strategies.
Prerequisites: grad st; admis to grad degree program or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

NURS 731 Practicum and Seminar in Health Professional Education
3 cr. Graduate.
Observation, participation, and practice in teaching in a health professional educational program.
Prerequisites: grad st
Last Taught: Fall 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

NURS 734 Care Management Practicum
3 cr. Graduate.
Clinical practicum focused on providing evidence-based nursing care to a cohort of patients and families within a specific clinical setting.
Prerequisites: grad st; NURS 721 (C) (or NURS 707, 753), 723(C), 754(C)
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

NURS 735 Theory for Advanced Practice
3 cr. Graduate.
Study of knowledge base of nursing science. Concepts, frameworks and theories for nursing practice, for advanced roles with individuals, aggregates and systems.
Prerequisites: grad st; admis to Nursing degree program or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 737 Clinical Nurse Specialist: Practicum I
3 cr. Graduate.
Using a theoretical and research base, the student explores, discusses, and enacts the advanced clinical nursing practice role in a chosen area of practice.
Prerequisites: grad st; NURS 725(C), 754(C).
Current Offerings: http://uwm.edu/schedule

NURS 738 Clinical Nurse Specialist: Practicum II
3 cr. Graduate.
Continuation of practicum I: second semester advanced clinical nursing practice.
Prerequisites: grad st; NURS 707(C); NURS 737(P).
Last Taught: Fall 2012, Summer 2012, Fall 2011, Summer 2011.
Current Offerings: http://uwm.edu/schedule

NURS 739 Clinical Nurse Specialist: Practicum III
3 cr. Graduate.
Continuation of practicum II: third semester advanced clinical nursing practice.
Prerequisites: NURS 738(P).
Last Taught: Spring 2013, Fall 2012, Spring 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

NURS 741 Psychiatric Mental Health Theory I
3 cr. Graduate.
This course provides a foundation in psychopathology for clinical assessment and patient management across the lifespan.
Prerequisites: NURS 781(C); NURS 707(P); NURS 753(P); NURS 754(P); and NURS 753(P).
Current Offerings: http://uwm.edu/schedule

NURS 742 Psychiatric Mental Health Theory I
3 cr. Graduate.
Introduction to psychiatric history taking, assessment, diagnostic evaluation, treatment modalities, and determinants of mental health for patients and families across the life span.
Prerequisites: NURS 782(C); NURS 741(P) and NURS 781(P).
Current Offerings: http://uwm.edu/schedule

NURS 750 Outcomes and Quality Management
3 cr. Graduate.
Examination, development and utilization of frameworks and tools for implementation and evaluation of health care program outcomes and quality management for groups of patients.
Prerequisites: grad st
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule

NURS 751 Teaching in Practice Disciplines
3 cr. Graduate.
Issues, theories, and strategies used for teaching in disciplines that require clinical learning for the development of needed critical thinking and performance abilities.
Prerequisites: grad st; cons instr
Current Offerings: http://uwm.edu/schedule

NURS 752 Curriculum Development in Nursing Education
3 cr. Graduate.
Principles and techniques of nursing curriculum design, development, implementation and evaluation.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

NURS 753 Physiologic Basis of Advanced Nursing Practice
3 cr. Graduate.
Human physiologic responses to actual and potential health problems, methods of measurement, development and environmental influences, and implications for advance nursing practice.
Prerequisites: grad st ; admis to Nursing degree program or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 754 Comprehensive Assessment of Health: Implications for Clinical Decision-Making
3 cr. Graduate.
Comprehensive assessment of health in individuals and aggregates, including measurement of health status, appraisal of needs, analysis of environmental contexts, and development of diagnostic strategies.
Prerequisites: grad st; admis to Nursing degree program; NURS 753(P); or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
NURS 757 Family Nurse Practitioner Practicum I
3 cr. Graduate.
First of a three-practicum sequence designed to provide practice experience caring for individuals, families, and populations in primary care settings.
Prerequisites: grad st; Nurs 707(P); Nurs 725(P); Nurs 727(P); Nurs 729(P); Nurs 735(P); Nurs 754(P).
Current Offerings: http://uwm.edu/schedule

NURS 758 Family Nurse Practitioner Practicum II
3 cr. Graduate.
Second of a three-practicum sequence focused on family nurse practitioner practice based on understanding the centrality of the patient-provider relationship.
Prerequisites: Nurs 757(P); 767(P); & 725(C).
Last Taught: Summer 2017, Summer 2016, Summer 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 759 Family Nurse Practitioner Practicum III
3 cr. Graduate.
This is the last of a three-sequence practicum. Emphasis is on health policy, ethical, and professional issues that influence clinical decision-making in primary care.
Prerequisites: grad st; Nurs 758(P); 768(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

NURS 760 Processes of Aging
3 cr. Graduate.
An overview of the processes of aging including biological, psychological, and sociological perspectives. Emphasis on theories of development, gerontological research findings, and health services applications.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 762 Family Theory and Intervention Strategies for Advanced Nursing Practice
3 cr. Graduate.
Cognitive, affective, and behavioral principles related to the functioning of the family and its members. Emphasis on therapeutic interventions used in advanced nursing practice.
Prerequisites: grad st or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 763 Issues in Women's Health and Development
3 cr. Graduate.
Current physical, mental health, and developmental issues affecting women. Examination of the role of gender in health care research and clinical practice.
Prerequisites: grad st or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 764 Changing Health Behaviors
3 cr. Graduate.
Enhancement of knowledge related to the process of behavioral change, models of change, factors that affect change behavior, and issues related to measuring change.
Prerequisites: grad st or cons instr.
Last Taught: Summer 2010, Fall 1991.
Current Offerings: http://uwm.edu/schedule

NURS 767 Family Nurse Practitioner Theory I
3 cr. Graduate.
Introductory course designed to prepare family nurse practitioners to deliver health care to individuals, families, and populations
Prerequisites: grad st; Nurs 707(P); Nurs 725(P); Nurs 727(P); Nurs 729(P); Nurs 735(P); Nurs 754(P)
Current Offerings: http://uwm.edu/schedule

NURS 768 Family Nurse Practitioner Theory II
3 cr. Graduate.
Second of a three-course sequence focused on the delivery of primary care services within a relationship-centered care framework.
Prerequisites: Nurs 757(P); 767(P); & 725(C).
Last Taught: Summer 2017, Summer 2016, Summer 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 769 Family Nurse Practitioner Theory III
3 cr. Graduate.
Last of a three-sequence course focused on health policy and professional issues that affect the delivery of primary care by family nurse practitioners.
Prerequisites: Nurs 758(P); 768(P).
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

NURS 769 Family Nurse Practitioner Theory III
3 cr. Graduate.
Relevant topics grounded in research and theory that are related to professional development of nursing leadership and management roles in health care organizations.
Prerequisites: grad st or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 770 Nursing Administration
3 cr. Graduate.
Applying theory and research, the student will explore, discuss, and actively participate in an advanced administration practice role in a healthcare organization.
Prerequisites: grad st or cons instr.
Last Taught: Fall 2014, Spring 2014, Fall 2013, Spring 2013.
Current Offerings: http://uwm.edu/schedule

NURS 771 Nursing Administration Practicum
3 cr. Graduate.
Basic concepts of nursing informatics are examined with emphasis on application to clinical practice to improve the quality of care.
Prerequisites: grad st
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
NURS 774 Trauma Counseling I: Theory and Research
3 cr. Graduate.
Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.
Prerequisites: grad st
Course Rules: Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 775 Trauma Counseling II: Diagnosis and Treatment
3 cr. Graduate.
Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.
Prerequisites: grad st; Couns 774, Nurs 774, OccThpy 774 or Soc Wrk 774(P), or cons instr
Course Rules: Couns 775, Nurs 775, OccThpy 775, and Soc Wrk 775 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

NURS 776 Clinical Informatics
3 cr. Graduate.
Examine the development, implementation and evaluation of clinical informatics solutions to facilitate the use of information and communication technologies within and across health care delivery systems.
Prerequisites: grad st
Course Rules: Online only.
Last Taught: Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

NURS 777 Special Topics Seminar
1-5 cr. Graduate.
Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.
Prerequisites: grad st or cons instr.
Course Rules: May be repeated with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

NURS 780 Study Abroad
1-9 cr. Graduate.
Designed to enroll graduate students in UWM-sponsored program before content and credits are determined and/or in especially prepared program coursework.
Prerequisites: Acceptance for Study Abroad Program.
Course Rules: May be taken w/ chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

NURS 781 Psychiatric Mental Health NP Practicum I
3 cr. Graduate.
This is the first of a three-sequence practicum. Emphasis is on beginning clinical assessment, diagnostic evaluation, and beginning management of patients with psychiatric disorders.
Prerequisites: NURS 754 or its equivalent; NURS 753 or its equivalent; NURS 707 or its equivalent (Grad assessment; patho and pharm). Taken concurrently with NURS 741
Current Offerings: http://uwm.edu/schedule

NURS 782 Psychiatric Mental Health NP Practicum II
3 cr. Graduate.
This is the second of a three-sequence practicum. Emphasis is on advanced clinical assessment (including social/environmental determinants of health), diagnostic evaluation, and treatment planning.
Prerequisites: NURS 741 and NURS 781. Taken concurrently with NURS 742
Current Offerings: http://uwm.edu/schedule

NURS 783 Psychiatric Mental Health NP Practicum III
3 cr. Graduate.
This is the third of a three-sequence practicum. Emphasis is on developing progressive competence in diagnosis and treatment of patients and families with complex needs.
Prerequisites: NURS 742 and NURS 782. Taken concurrently with NURS 743.
Current Offerings: http://uwm.edu/schedule

NURS 784 Advanced Nursing Practice Interventions
3 cr. Graduate.
Advanced knowledge and skills for developing, implementing, and evaluating nursing interventions for common nursing phenomena with individuals and aggregates.
Prerequisites: grad st; NURS 725(P); admis to Nursing degree program or cons instr.
Last Taught: Spring 2012, Fall 2011, Spring 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

NURS 789 Master of Nursing Residency
1-3 cr. Graduate.
Intensive clinical immersion experience during which students implement the role of the masters-prepared nurse.
Prerequisites: grad st; completion of all required Master of Nursing course work; but NURS 803 can be seq or concurrent.
Current Offerings: http://uwm.edu/schedule

NURS 791 Clinical Informatics Practicum I
3 cr. Graduate.
First semester of a 3-semester practicum focused on the application of clinical informatics within healthcare settings to facilitate evidence-based nursing practice and improve outcomes.
Prerequisites: grad st
Course Rules: Clinical practicum hours for each student will take place at the assigned clinical site as negotiated with the clinical preceptor and faculty.
Current Offerings: http://uwm.edu/schedule
NURS 792 Clinical Informatics Practicum II
3 cr. Graduate.
Second semester of a 3-semester practicum focused on the application of clinical informatics within healthcare settings to facilitate evidence-based nursing practice and improve outcomes.
Prerequisites: grad st
Course Rules: Clinical practicum hours for each student will take place at the assigned clinical site as negotiated with the clinical preceptor and faculty.
Last Taught: Summer 2017, Summer 2016.
Current Offerings: http://uwm.edu/schedule

NURS 793 Clinical Informatics Practicum III
3 cr. Graduate.
Third semester of a 3-semester practicum focused on the application of clinical informatics within healthcare settings to facilitate evidence-based nursing practice and improve outcomes.
Prerequisites: grad st
Course Rules: Clinical practicum hours for each student will take place at the assigned clinical site as negotiated with the clinical preceptor and faculty.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 797 Independent Study for Graduate Students
1-6 cr. Graduate.
Opportunity for students to pursue study in a subject area of special need or interest under guidance of graduate faculty.
Prerequisites: grad st or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 801 Foundations of Inquiry for Health Research
3 cr. Graduate.
Study of historical evolution of contemporary health science in terms of important philosophical and empirical antecedents.
Prerequisites: admis to doctoral prog in Nursing or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

NURS 802 The Science of Nursing
3 cr. Graduate.
Study of nursing science through the exploration of the interrelationships among the theory, research, and practice of nursing.
Prerequisites: admis to doctoral prog in nursing or cons instr; Nurs 801(NP).
Current Offerings: http://uwm.edu/schedule

NURS 803 Health Policy
3 cr. Graduate.
Explores the roles and accountability of health care providers and scientists in responding to the health and social needs of the public and shaping of public policy.
Prerequisites: admis to doctoral prog or cons instr
Current Offerings: http://uwm.edu/schedule

NURS 804 Healthcare Organization and Systems Leadership for Advanced Practice
3 cr. Graduate.
This course focuses on synthesis of leadership concepts for advanced practice nurses in complex healthcare delivery systems.
Prerequisites: Admission to Doctor of Nursing Practice Program.
Current Offerings: http://uwm.edu/schedule

NURS 805 Translational and Implementation Science
3 cr. Graduate.
In depth exploration of approaches to use of translational and implementation science in the development of practice guidelines and protocols and evaluation of practice change.
Prerequisites: NURS 725.
Current Offerings: http://uwm.edu/schedule

NURS 808 Multivariate Statistics for Healthcare
3 cr. Graduate.
A study of commonly used multivariate statistical methods as well as their applications to practical data analysis with emphasis on nursing and health care research.
Prerequisites: Grad st or cons instr.
Last Taught: Fall 2017, Summer 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

NURS 809 Integrative Studies
3 cr. Graduate.
Synthesis of ideology and content in the student’s specialty area with regard to the research, theory development, and policy roles of the emerging nurse scholar.
Prerequisites: grad st or cons instr.
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule

NURS 810 Leadership for Advanced Practice in Healthcare
3 cr. Graduate.
Synthesis of leadership concepts of advanced nursing practice. Interdisciplinary and ethical practice and leading multiple constituencies are emphasized from an evidence based perspective.
Prerequisites: grad st
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 811 Clinical Nurse Specialist Practicum I-Psychiatric/Mental Health
3 cr. Graduate.
First semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the psychiatric/mental health population.
Prerequisites: grad st; Nurs 707(P), 725(P), 754(P)
Current Offerings: http://uwm.edu/schedule

NURS 812 Clinical Nurse Specialist Practicum II-Psychiatric/Mental Health
3 cr. Graduate.
Second semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the psychiatric/mental health population.
Prerequisites: grad st; Nurs 811(P)
Current Offerings: http://uwm.edu/schedule
NURS 813 Clinical Nurse Specialist Practicum III-Psychiatric/Mental Health
3 cr. Graduate.
Third semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the psychiatric/mental health population.
Prerequisites: grad st; Nurs 812(P)
Current Offerings: http://uwm.edu/schedule

NURS 814 Clinical Nurse Specialist Practicum I-Maternal/Infant
3 cr. Graduate.
First semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the maternal/infant population.
Prerequisites: grad st; Nurs 707(P), 725(P), 754(P)
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

NURS 815 Clinical Nurse Specialist Practicum II-Maternal/Infant
3 cr. Graduate.
Second semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the maternal/infant population.
Prerequisites: grad st; Nurs 814(P)
Last Taught: Summer 2017.
Current Offerings: http://uwm.edu/schedule

NURS 816 Clinical Nurse Specialist Practicum III-Maternal/Infant
3 cr. Graduate.
Third semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the maternal/infant population.
Prerequisites: grad st; Nurs 815(P)
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

NURS 817 Clinical Nurse Specialist Practicum I-Pediatric
3 cr. Graduate.
First semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the pediatric population.
Prerequisites: grad st; Nurs 707(P), 725(P), 754(P)
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

NURS 818 Clinical Nurse Specialist Practicum II-Pediatric
3 cr. Graduate.
Second semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the pediatric population.
Prerequisites: grad st; Nurs 817(P)
Current Offerings: http://uwm.edu/schedule

NURS 819 Clinical Nurse Specialist Practicum III-Pediatric
3 cr. Graduate.
Third semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the pediatric population.
Prerequisites: grad st; Nurs 818(P)
Current Offerings: http://uwm.edu/schedule

NURS 820 Analysis of Nursing Phenomena
3 cr. Graduate.
Exploration of selected phenomena relevant to nursing through the evaluation and synthesis of scientific knowledge.
Prerequisites: Admis to doctoral prog in Nursing; Nurs 802(P)
Last Taught: Spring 2018, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 825 Evidence Based Practice in Healthcare II
3 cr. Graduate.
In depth exploration of approaches to development of practice guidelines and protocols and evaluation of practice change.
Prerequisites: grad st; Nurs 725(P); grad level course in biostatistics
Current Offerings: http://uwm.edu/schedule

NURS 826 Nurse Executive Practicum I
3 cr. Graduate.
First semester of a 3-semester practicum focused on the application of theory and research in nurse executive practice.
Prerequisites: Nurs 810(P).
Current Offerings: http://uwm.edu/schedule

NURS 827 Nurse Executive Practicum II
3 cr. Graduate.
Second semester of a 3-semester practicum focused on the application of theory and research in nurse executive practice.
Prerequisites: Nurs 826(P).
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 828 Nurse Executive Practicum III
3 cr. Graduate.
Third semester of a 3-semester practicum focused on the application of theory and research in nurse executive practice.
Prerequisites: Nurs 827(P).
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

NURS 829 Advanced Community/Public Health Nursing Practicum I
3 cr. Graduate.
First semester of a three-semester practicum focused on the application of theory and research in advanced community/public nursing health practice.
Prerequisites: Nurs 835(P).
Current Offerings: http://uwm.edu/schedule

NURS 830 Advanced Community/Public Health Nursing Practicum II
3 cr. Graduate.
Second semester of a three-semester practicum focused on the application of theory and research in advanced community/public nursing health practice.
Prerequisites: Nurs 836(P), 829(P).
Last Taught: Summer 2017, Fall 2014.
Current Offerings: http://uwm.edu/schedule
NURS 831 Advanced Community/Public Health Nursing Practicum III
3 cr. Graduate.
Third semester of a three-semester practicum focused on the application of theory and research in advanced community/public nursing health practice.
Prerequisites: Nurs 830(P).
Last Taught: Fall 2017, Spring 2015.
Current Offerings: http://uwm.edu/schedule

NURS 832 Clinical Nurse Specialist Practicum I-Adult/Gerontology
3 cr. Graduate.
First semester of a 3-semester practicum focused on advanced practice nursing in a clinical nurse specialist role with the adult / geriatric population.
Prerequisites: grad s; NURS 707(P), 725(P), 754(P)
Current Offerings: http://uwm.edu/schedule

NURS 833 Clinical Nurse Specialist Practicum II-Adult/Gerontology
3 cr. Graduate.
Second semester of a 3-semester practicum focused on advanced practice nursing in a clinical nurse specialist role with the adult/geriatric population.
Prerequisites: grad st; Nurs 832(P)
Last Taught: Summer 2016.
Current Offerings: http://uwm.edu/schedule

NURS 834 Clinical Nurse Specialist Practicum III-Adult/Gerontology
3 cr. Graduate.
Third semester of a 3-semester practicum focused on advanced practice nursing in a clinical nurse specialist role with the adult/geriatric population.
Prerequisites: grad st; Nurs 833(P)
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

NURS 835 Theoretical Basis for Advanced Community / Public Health Nursing
3 cr. Graduate.
Theoretical knowledge, skills, and attitudes relevant to advanced community/public health practice, education, management and research.
Prerequisites: Admis to Nurs doctoral prog
Last Taught: Fall 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

NURS 836 Advanced Community Health Nursing- Assessment, Program Planning, Evaluation
3 cr. Graduate.
Knowledge, skills and attitudes required for community assessment, program planning and evaluation.
Prerequisites: grad st; Nurs 835(P) or cons instr
Last Taught: Spring 2016, Spring 2014.
Current Offerings: http://uwm.edu/schedule

NURS 879 Special Topics in Nursing Research:
1-3 cr. Graduate.
Intensive study of selected research methodologies used to investigate nursing phenomena; topics vary by sections.
Prerequisites: admis to doctoral prog in nursing or cons instr.
Course Rules: May be repeated with change of topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

NURS 881 Measurement for Health Research
3 cr. Graduate.
Study of theories of measurement and scaling, properties of research instruments, design and testing of instruments for health research.
Prerequisites: admis to doctoral prog in nursing or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 882 Qualitative Methods in Health Research
3 cr. Graduate.
Diverse qualitative design and analysis strategies used in the study of health phenomena. Emphasis will be to critique existing research and to plan future research.
Prerequisites: admis to doctoral prog in nursing or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 883 Quantitative Methods in Health Research
3 cr. Graduate.
Major quantitative designs and data management/analysis strategies used in clinical health research. Emphasis will be to critique existing research and to plan future research.
Prerequisites: admis to doctoral prog in Nursing or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 884 Computer Applications for Qualitative Analysis
1 cr. Graduate.
Types, uses, and implications of computer applications for qualitative data analysis; includes in-depth experience with a selected program.
Prerequisites: Nurs 882 (P), or Ad Ldsp 729 (P), or Urb Std 979 (P), or Educ 881 (P), or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 885 Advanced Quantitative Methods in Health Research
3 cr. Graduate.
In depth study of quantitative research methods with an emphasis on decision making for intervention studies and research with large data sets, advanced analytic strategies, communicating and interpreting results.
Prerequisites: grad st; Nurs 883(P), Nurs 881(P), Multivariate Statistics(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 886 Advanced Qualitative Methods in Health Research
3 cr. Graduate.
Enable student to acquire the advanced knowledge and skills needed to design and implement studies best suited to qualitative modes of investigation.
Prerequisites: grad st; Nurs 882(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st; cons School of Nursing advisor.
Course Rules: Fee assessed for 1 cr.
Last Taught: Summer 2016, Fall 2010, Summer 2010, Summer 2009.
Current Offerings: http://uwm.edu/schedule
NURS 890 Issues in Scholarship
3 cr. Graduate.
Critical analysis of issues in scholarship and development of skills in literature review, scholarly discourse, and ethical conduct of research.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

NURS 897 Independent Study for Doctoral Students
1-6 cr. Graduate.
Opportunity for the student to pursue study in a subject area of special need or interest under the guidance of graduate faculty.
Prerequisites: doctoral student status; cons instr.
Current Offerings: http://uwm.edu/schedule

NURS 899 Practicum in Nursing Research
1-6 cr. Graduate.
Mastery of research skills and techniques through participation in faculty research.
Prerequisites: admis to doctoral prog in nursing or cons instr.
Course Rules: May be repeated to a total of 6 cr.
Current Offerings: http://uwm.edu/schedule

NURS 991 Research and Thesis
1-3 cr. Graduate.
Independent research and thesis writing under the supervision of member of graduate faculty.
Prerequisites: grad st; cons advisor UWM School of Nursing.
Course Rules: May be retaken to max of 3 cr.
Last Taught: Summer 2015, Spring 2015, Fall 2014, Summer 2014.
Current Offerings: http://uwm.edu/schedule

NURS 993 DNP Project I: Plan
2 cr. Graduate.
The focus of the course is identifying a mentor and beginning to analyze a complex problem or issue within a health care or community-based setting.
Prerequisites: DNP student; NURS 750, NURS 804 and NURS 805.
Current Offerings: http://uwm.edu/schedule

NURS 994 DNP Project II: Proposal
2 cr. Graduate.
The focus of the course is developing a detailed plan for a DNP project that addresses a complex problem or issue and demonstrates clinical scholarship.
Prerequisites: NURS 993.
Current Offerings: http://uwm.edu/schedule

NURS 995 DNP Project III: Leadership Practice Immersion
1-4 cr. Graduate.
The focus of the course is implementation and evaluation of a DNP project that demonstrates leadership and the foundation for future practice scholarship.
Prerequisites: grad st, admis to candidacy for the DNP, and NURS 994.
Current Offerings: http://uwm.edu/schedule

NURS 997 Doctoral Dissertation
3 cr. Graduate.
Prerequisites: grad st; admis to candidacy for the PhD; cons advisor.
Course Rules: May be repeated.
Current Offerings: http://uwm.edu/schedule

Faculty

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<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
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<tbody>
<tr>
<td>Mary Jo Baisch</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>James Bockeloh</td>
<td>Clinical Assistant Professor</td>
<td>DNP, RN, FNP-BC</td>
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<td>Susan Bonis</td>
<td>Clinical Assistant Professor</td>
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<td>University of Massachusetts-Amherst</td>
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<td>Freddy Cao</td>
<td>Clinical Associate Professor</td>
<td>MD, PhD</td>
<td>University of Tokyo</td>
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<td>Jacqueline Clinton</td>
<td>Professor</td>
<td>PhD, RN, FAAN</td>
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<td>Amy Coenen</td>
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<td>Kathleen V. Cowles</td>
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<td>Susan L. Dean-Baar</td>
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<td>Elizabeth C. Devine</td>
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<td>Jennifer Doering</td>
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<td>Anne Dressel</td>
<td>Assistant Professor</td>
<td>PhD, CEPH, MLIS, MA</td>
<td>University of Wisconsin-Milwaukee</td>
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<td>Teresa DuChateau</td>
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<td>Lauren K. Glass</td>
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<td>Sandeep Gopalakrishnan</td>
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<td>Jeana Holt</td>
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<td>Seok Hyun (Joshua) Gwon</td>
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<td>PhD, MSN, RN</td>
<td>University of Virginia, Charlottesville</td>
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<td>Eugenie Hildebrandt</td>
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<td>University of Witwatersrand Medical</td>
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<td>Kay Jansen</td>
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<td>Peninnah Kako</td>
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<td>Jennifer Kibicho</td>
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<td>Carol Klingbeil</td>
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<td>Christine Kovach</td>
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<td>Alice M. Kuramoto</td>
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<td>Norma Lang</td>
<td>Professor</td>
<td>PhD, RN, FAAN, FRNCN</td>
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<td>Jane S. Leske</td>
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<td>Kim Litwack</td>
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<td>Heidi Luft</td>
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<td>Sandra Millon-Underwood</td>
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<td>Sarah Morgan</td>
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<td>Karen Morin</td>
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<td>University of Alabama at Birmingham</td>
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<td>Ellen K. Murphy</td>
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<td>Hyun Kyoung Oh</td>
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<td>Sandra Plach</td>
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<td>Michele Polfuss</td>
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<td>Carol M Porth</td>
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<td>Medical College of Wisconsin</td>
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<td>Beth L. Rodgers</td>
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<td>Kimberly Ryan</td>
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<td>Kathleen Sawin</td>
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<td>Diane Schadowald</td>
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<td>Rachel Schiffman</td>
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<td>Florence E. Selder</td>
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<td>Patricia E. Stevens</td>
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<td>Murad Taani</td>
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<td>Vipavee Thongpriwan</td>
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<td>University of Wisconsin-Milwaukee</td>
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**Contact Information**

**Student Affairs Office**  
Cunningham Hall, 129

Phone: (414) 229-5047 (Milwaukee)  
Phone: (262) 595-2480 (Parkside)

[www.uwm.edu/nursing](http://www.uwm.edu/nursing)
CLINICAL NURSE SPECIALIST, GRADUATE CERTIFICATE

The Clinical Nurse Specialist Postgraduate Certificate is designed to provide advanced practice preparation as a Clinical Nurse Specialist (CNS) to nurses who hold a Master's degree in Nursing and are prepared for other roles or population groups. The student will choose one of the following populations: adult/gerontology, pediatric, maternal/infant, or psychiatric/mental health. The program will be taught online with clinical preceptor placements as close as possible to a student's geographic location.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

Applicants must meet the following requirements to be eligible for admission to the program:

1. A minimum 3.0 (4.0 scale) cumulative grade point average (GPA) is required in previous undergraduate and graduate programs.
2. Prerequisites: Graduate courses (3 credits each) in physiology, physical assessment, and pharmacology are required with a grade of B or better. Physiology and physical assessment must be within the previous 5 years and pharmacology must be within 3 years. Note: Evidence of prescriptive authority granted through a state board of nursing will be accepted in place of graduate pharmacology.

Application

• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

The CNS Certificate consists of 18 credit hours of coursework. All courses are 3 credits each and are offered in a three-semester sequence so the program can be completed in 12 months. The three practicum courses vary by population focus and must be taken sequentially. The three theory courses vary by population focus and the plan for theory coursework must be approved by the CNS option coordinator. The three courses must be graduate level (700 or above) and provide content across the continuum from wellness through acute care for the selected population.

**Adult/Gerontology Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 832</td>
<td>Clinical Nurse Specialist Practicum I-Adult/Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 833</td>
<td>Clinical Nurse Specialist Practicum II-Adult/Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 834</td>
<td>Clinical Nurse Specialist Practicum III-Adult/Gerontology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Theory**

Select 9 credits; recommended courses may include the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (with subtitle &quot;Advanced Practice Nursing-Adult/Gerontology Acute Illness&quot;)</td>
<td>3</td>
</tr>
<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (with subtitle &quot;Advanced Practice Nursing-Adult/Gerontology Chronic Illness&quot;)</td>
<td>3</td>
</tr>
<tr>
<td>NURS 760</td>
<td>Processes of Aging</td>
<td>3</td>
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</table>

**Pediatric Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 817</td>
<td>Clinical Nurse Specialist Practicum I-Pediatric</td>
<td>3</td>
</tr>
<tr>
<td>NURS 818</td>
<td>Clinical Nurse Specialist Practicum II-Pediatric</td>
<td>3</td>
</tr>
<tr>
<td>NURS 819</td>
<td>Clinical Nurse Specialist Practicum III-Pediatric</td>
<td>3</td>
</tr>
</tbody>
</table>

**Theory**

Select 9 credits; recommended courses may include the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (with subtitle &quot;Advanced Practice Nursing-Pediatric Acute Illness&quot;)</td>
<td>3</td>
</tr>
<tr>
<td>NURS 779</td>
<td>Special Topics Seminar: (with subtitle &quot;Advanced Practice Nursing-Pediatric Chronic Illness&quot;)</td>
<td>3</td>
</tr>
<tr>
<td>NURS 762</td>
<td>Family Theory and Intervention Strategies for Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 771</td>
<td>Development of the Family Over the Life Span</td>
<td>3</td>
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</tbody>
</table>

**Maternal/Infant Track**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>NURS 814</td>
<td>Clinical Nurse Specialist Practicum I-Maternal/Infant</td>
<td>3</td>
</tr>
</tbody>
</table>
NURS 815  Clinical Nurse Specialist Practicum II-Maternal/Infant  3
NURS 816  Clinical Nurse Specialist Practicum III-Maternal/Infant  3

**Theory**

Select 9 credits; recommended courses may include the following:

NURS 779  Special Topics Seminar: (with subtitle "Advanced Practice Nursing: Health Promotion for Women and Childbearing Families")
NURS 779  Special Topics Seminar: (with subtitle "Advanced Practice Nursing: Women and Childbearing Families with Acute and Chronic Health Conditions")
NURS 779  Special Topics Seminar: (with subtitle "Special Topics Seminar with subtitle Maternity and Perinatal Care")
NURS 763  Issues in Women’s Health and Development  9

**Psychiatric/Mental Health Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 811</td>
<td>Clinical Nurse Specialist Practicum I-Psychiatric/Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 812</td>
<td>Clinical Nurse Specialist Practicum II-Psychiatric/Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 813</td>
<td>Clinical Nurse Specialist Practicum III-Psychiatric/Mental Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**Theory**

Select 9 credits; recommended courses may include the following:

COUNS 715  Multicultural Counseling
NURS 774  Trauma Counseling I: Theory and Research
NURS 775  Trauma Counseling II: Diagnosis and Treatment
ED PSY 752  Developmental Psychopathology
SOC WRK 753  Adult Psychopathology

**Total Credits**  18

**Certificate Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:

   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

**Certification and Licensing**

On completion of the CNS Certificate program, graduates with a population focus on adult/gerontology or pediatrics will be eligible to take the national CNS certification exams in adult/gerontology or pediatrics offered by American Nurses Credentialing Center (ANCC, 2013) or by the American Association of Critical Care Nurses (AACN) Certification Corporation (AACN, 2014). Upon successful completion of the CNS certification exam, graduates may choose to apply for prescriptive privileges in the state of Wisconsin as an Advanced Practice Nurse Prescriber or APNP (Wisconsin DSPS, 2013). Currently, CNS certification exams are not available for the maternal/infant or psychiatric/mental health populations.
FAMILY NURSE PRACTITIONER, GRADUATE CERTIFICATE

The post master's family nurse practitioner certificate is designed for registered nurses that have already completed a master's degree in nursing and wish to pursue preparation as a family nurse practitioner.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UW graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
The admission requirements of the post master’s family nurse practitioner program are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

1. A master’s degree in Nursing from an accredited program.
2. Completion with a grade of B or better of a graduate-level course in physiology, pharmacology, comprehensive assessment, and epidemiology. Evidence of prescriptive authority in the state of Wisconsin will be accepted in place of graduate pharmacology.
3. Current registration as a professional nurse in the state of Wisconsin.
4. Three (3) letters of recommendation, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences. Personal interviews with a faculty member may be requested.
5. Completion of an autobiographical sketch.

Credits and Courses
Designated coursework in the certificate program is completed under the direction of faculty experts and clinical preceptors. A three consecutive semester sequence of theory and practicum courses totaling 18 credits is required for completion of the post master's family nurse practitioner certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS 767</td>
<td>Family Nurse Practitioner Theory I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 768</td>
<td>Family Nurse Practitioner Theory II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 769</td>
<td>Family Nurse Practitioner Theory III</td>
<td>3</td>
</tr>
<tr>
<td>NURS 757</td>
<td>Family Nurse Practitioner Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 758</td>
<td>Family Nurse Practitioner Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 759</td>
<td>Family Nurse Practitioner Practicum III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>18</td>
</tr>
</tbody>
</table>

Minimum Grade Requirement
For continuation in the program, in addition to general Graduate School requirements students must achieve a minimum grade of B in all required FNP practicum courses and a minimum grade of B- in all other required courses.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UW graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
GLOBAL HEALTH, UNDERGRADUATE CERTIFICATE (COLLEGE OF NURSING)

Anne Dressel, Director, Center for Global Health Equity, Nursing, Certificate Coordinator
Deatra Holloway, Senior Advisor, Nursing, CUN 129

Global Health is an interdisciplinary undergraduate certificate administered by the Director of the Center for Global Health Equity and the Global Health Advisory Committee (GHAC).

The world is economically, politically, culturally, and technologically connected and interdependent with increasingly mobile populations seeking economic opportunity, security, and safety as a result of civil unrest, regional conflicts, diminished natural resources, poverty, and disease. Although some health problems and issues remain specific to levels and contexts of socio-cultural, economic, and political development within countries, many of the same problems, issues, and concerns transcend geographic boundaries, as should appropriate approaches and solutions. The concept of “global health” describes and addresses these realities. An undergraduate certificate in Global Health will provide students with academic inquiry into:

- the global burden of disease
- the social determinants of health in a global context
- the principles, language, and measurement tools used in global health
- ethics and global health
- the global cultural, religious, and historical contexts of health, disease, and health care

The Global Health Certificate will provide undergraduate students with an opportunity to focus on current global health issues and concerns, policies, processes, programs, and practices that contribute to and hinder global health improvement. A wide array of courses will help students better comprehend the interdisciplinary approach to understanding and addressing global health issues.

Eligibility
The Global Health Certificate is intended to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.

Requirements
To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 21 credits in approved Global Health courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, 9 must be taken at the 300 level or above. A minimum of 6 credits must be taken in the College of Letters and Science. A minimum of 6 credits must be taken in the College of Nursing. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on global health issues may be accepted with the approval of the Certificate Program Coordinator. Other courses not on this list but relevant to the study of global health may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the approval of this program may count those courses toward completion of the certificate requirements.

The following are required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 110</td>
<td>Introduction to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 101</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

World Regions
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td>3</td>
</tr>
<tr>
<td>HIST 132</td>
<td>World History Since 1500</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 106</td>
<td>Politics of the World’s Nations</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 103</td>
<td>World Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select a minimum of 6 credits

Fieldwork
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 475</td>
<td>Global Health: Ethics and Human Rights</td>
<td>3</td>
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</table>

Total Credits 21

Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AFRICOL 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 351</td>
<td>Sexuality, Gender, and Health in Africa and the Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 102</td>
<td>Introduction to Anthropology: Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/GLOBAL 439</td>
<td>Culture and Global Health</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
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</tr>
<tr>
<td>ANTHRO/GLOBAL 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>BMS 204</td>
<td>Plagues, Pandemics, and Epidemics</td>
<td>3</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 375</td>
<td>Global Violence, Disease, and Death</td>
<td>3</td>
</tr>
<tr>
<td>NURS 440</td>
<td>Nursing Specialty</td>
<td>2</td>
</tr>
<tr>
<td>NURS 497</td>
<td>Study Abroad:</td>
<td>3</td>
</tr>
<tr>
<td>NURS 620</td>
<td>Global Food Security and Systems</td>
<td>3</td>
</tr>
<tr>
<td>PH 303</td>
<td>Climate Change, the Environment and Human Health</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 374</td>
<td>Health, Wealth, and Democracy</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 472</td>
<td>Population and Society</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fieldwork**

Students are required to do an internship, self-designed research project, or study abroad (for a minimum of 3 credits at the 300-level or above) in the field of global health. The purpose of this requirement is to enable the student to engage in global health work through "practical" experience or research. The area of study must be approved by the coordinator of the Global Health Certificate and must meet the requirements of the department through which it is being completed.

The fieldwork requirement can be fulfilled in one of three ways:

- **Internship** – A number of global health internships are available through the International Studies Major (INTLST 450), as well as other departments and organizations.
- **Study Abroad** – UWM offers a number of Global Health study abroad programs, through several departments.
- **Independent Study** – The student may propose a global health research project to a professor in an area of interest. The independent study also must be discussed with and approved by the Global Health Certificate Coordinator.
HEALTH PROFESSIONAL EDUCATION, GRADUATE CERTIFICATE (COLLEGE OF NURSING)

The Health Professional Education certificate is designed to provide health professionals with additional preparation in educational principles and theory to support them in their roles as educators of students and staff in the health professions as well as in the role of patient educator. This program is open to students simultaneously enrolled in a graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s, or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences and Schools of Nursing and Education, and is coordinated through the College of Nursing.

Admission Requirements

Application Deadlines
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Application
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- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Applicants are admitted to the certificate program in one of three categories: post-baccalaureate, current student in a UWM graduate health profession program, or post-graduate student.

1. Post-baccalaureate students must have completed a bachelor’s degree in a health profession discipline with a grade point average of 2.75 or above (4.0 scale) and not be currently enrolled in a graduate degree program at UWM.
2. The admission requirements of the health professional educational certificate for students enrolled in good standing in a UWM graduate health profession program are consistent with those requirements specified by the program.
3. Post-graduate students must have completed a graduate degree in a health profession or related discipline with a grade point average of 3.0 or above (4.0 scale).

Credits and Courses

The completion of 15 credit hours (5 courses) is required for the certificate program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD LDSP 757</td>
<td>Principles and Foundations of Adult Education</td>
<td>6</td>
</tr>
<tr>
<td>NURS 731</td>
<td>Practicum and Seminar in Health Professional Education</td>
<td></td>
</tr>
<tr>
<td>Curriculum/Program Planning &amp; Evaluation Courses</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 667</td>
<td>Program Planning in Adult Education</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 607</td>
<td>Coordination of Staff Development and Training Program</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 647</td>
<td>Evaluation of Adult, Continuing, and Higher Education Programs</td>
<td></td>
</tr>
<tr>
<td>NURS 752</td>
<td>Curriculum Development in Nursing Education</td>
<td></td>
</tr>
<tr>
<td>Teaching/Instructional Strategies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 687</td>
<td>Instructional Design and Teaching Strategies</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 707</td>
<td>Using Technology With Adult Learners</td>
<td></td>
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<tr>
<td>AD LDSP 827</td>
<td>Seminar in Adult and Organizational Learning</td>
<td></td>
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<tr>
<td>NURS 705</td>
<td>Instructional Strategies for Patient Education</td>
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<tr>
<td>Elective Courses</td>
<td>3</td>
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<tr>
<td>AD LDSP 867</td>
<td>Seminar in Continuing Education in the Professions</td>
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</tr>
<tr>
<td>AD LDSP 787</td>
<td>Administration of Adult Education Programs</td>
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<tr>
<td>AD LDSP 547</td>
<td>The Educational Dimensions of Practice with Older Adults</td>
<td></td>
</tr>
<tr>
<td>NURS 764</td>
<td>Changing Health Behaviors</td>
<td></td>
</tr>
<tr>
<td>CURRINS 774</td>
<td>College Teaching</td>
<td></td>
</tr>
<tr>
<td>NURS 751</td>
<td>Teaching in Practice Disciplines</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

A current listing of courses that meet these requirements can be obtained from the College of Health Sciences or the College of Nursing. Students will need to maintain a 3.0 GPA and meet all other requirements of the Graduate School for continuation in the program. The Practicum and Seminar in Health Professional Education is the last course taken in the certificate program.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.
Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
INTERPROFESSIONAL GRADUATE CERTIFICATE IN PUBLIC AND POPULATION HEALTH (COLLEGE OF NURSING)

The Interprofessional Graduate Certificate in Public and Population Health is designed for students and working professionals involved in program planning and implementation, evaluation, education policy, health policy, engineering administration, research, and other areas related to public and population health. It recognizes that an interdisciplinary, systems approach is essential for communities to solve complicated social and economic problems. No one perspective or set of strategies can address the many dimensions of current societal problems. Prevention and population health are important cornerstones of the solutions to these problems, requiring linkages and new models of interaction among primary care, hospitals, communities and public health.

The Interprofessional Graduate Certificate is a 16-credit program with courses in four core disciplines: epidemiology, health policy, social and behavioral health, and environmental health. The fifth course grounds students in public health principles and practice. The sixth course will provide students the opportunity to engage in interprofessional workshops and other learning forums to foster competencies in interprofessional values, communication and teamwork. Three of the courses, in health behavior, epidemiology and health policy, are offered online, which will provide added flexibility for students.

This program is open to post-baccalaureate students, to those currently enrolled in a UWM graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences, College of Nursing, and the Zilber School of Public Health, and is coordinated through the Zilber School of Public Health Principles and Practice.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
The completion of 16 credit hours is required for the certificate program. All students are required to complete six courses (All are 3 credits unless noted):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NURS 727</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 556</td>
<td>Multilevel Approaches to Changing Physical Activity and Eating Behaviors or KIN 732 Physical Activity and Health Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 703</td>
<td>Foundations of Interprofessional Practice</td>
<td>1</td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

Students will need to maintain a 3.0 GPA and meet all other standard requirements for UWM graduate students for continuation in the program.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
NURSING PRACTICE, DNP

Doctor of Nursing Practice

There are two entry options for the Doctor of Nursing (DNP) Practice Program.

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.

There are two entry options for the Doctor of Nursing (DNP) Practice Program.

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with a master’s degree in nursing and a current Registered Nurse license. Student’s can pursue:

- Post Advanced Practice Masters (for individuals with NP, CNS, Midwife, CNRA)
- Post Generalist Masters (for individuals with MN or equivalent).

Individual plan of study will be developed based on review of the previous masters program coursework and transcript.

- Post Masters Curriculum (for individuals with other Nursing Masters degrees, ie. Nursing Education or Nursing Leadership). Individual plan of study will be developed based on review of the previous masters program coursework and transcript.

Doctor of Nursing Practice

There are two entry options for the Doctor of Nursing (DNP) Practice Program.

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

An applicant must meet Graduate School requirements plus the following College of Nursing requirements to be considered for admission to the doctoral program in Nursing:

1. A bachelor’s degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale) for the post baccalaureate DNP option.
2. A master’s degree in Nursing with an advanced practice focus from a professionally accredited program, with a minimum grade point average of 3.2 (4.0 scale) for the post master’s DNP option.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics.
4. Current registration as a professional nurse.
5. Completion of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) if the previous GPA is less than 3.2, as calculated by the UWM Graduate School.
6. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences.
7. Completion of an autobiographical sketch.
8. Personal interview with a faculty member may be requested.

These data are used by the Admissions Subcommittee as indicators of academic potential.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Reapplication

A student who receives a master’s degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student’s studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

The DNP program is offered to provide the highest academic preparation in clinical nursing. This is accomplished through core courses required of all students (30 credits) and completion of requirements for one of four clinical tracks. The following tracks are available:

Advanced Practice Nursing

- Family Nurse Practitioner
- Clinical Nurse Specialist (CNS) with options for focus in
  - Adult-Gerontology
  - Maternal-Infant
  - Pediatrics
- Community Nursing Public Health
- Nursing Systems with options for a focus in Nurse Executive or Nursing Informatics

Students in each of these areas will complete 21 credits in specialty theory and electives, 9 credits of specialty practicum and a 4 credit residency.

Credits and Courses

Minimum degree requirements are 65 graduate credits beyond the bachelor’s degree.

Post Baccalaureate DNP

The Post Baccalaureate DNP Curriculum includes the following components:
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foundations of Advanced Nursing Practice Core</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Evidence Based Practice Core</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Systems Core</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Specialty Theory (540 clock hours)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>DNP Project Core with Leadership Practice Immersion (460 clock hours)</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>65</strong></td>
</tr>
</tbody>
</table>

### Code | Title                                           | Credits |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Foundations of Advanced Nursing Practice Core</strong></td>
<td>3</td>
</tr>
<tr>
<td>NURS 728</td>
<td>Epidemiological Principles for Population Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Evidence Based Practice Core</strong></td>
<td>9</td>
</tr>
<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare I</td>
<td></td>
</tr>
<tr>
<td>NURS 805</td>
<td>Translational and Implementation Science</td>
<td></td>
</tr>
<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Systems Core</strong></td>
<td>12</td>
</tr>
<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
<td></td>
</tr>
<tr>
<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
<td></td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td></td>
</tr>
<tr>
<td>NURS 804</td>
<td>Healthcare Organization and Systems Leadership for Advanced Practice</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>DNP Project Core</strong></td>
<td>8</td>
</tr>
<tr>
<td>NURS 993</td>
<td>DNP Project I: Plan</td>
<td></td>
</tr>
<tr>
<td>NURS 994</td>
<td>DNP Project II: Proposal</td>
<td></td>
</tr>
<tr>
<td>NURS 995</td>
<td>DNP Project III: Leadership Practice Immersion</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

### Program Requirements

#### Residency
Both the post baccalaureate and post master’s curriculum include a 4-credit residency experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student’s specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

#### Time Limit
Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

#### Minimum Grade Requirement
For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures), students must achieve a minimum grade of B- in all required nursing courses. However, an overall G.P.A. of 3.00 is still required for the degree.

#### Residence
The student must meet minimum Graduate School residence requirements.

#### Doctoral Preliminary Examination
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that
sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

**DNP Project**

The candidate will complete a final comprehensive clinical project as part of the residency experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.
NURSING PRACTICE, DNP/ BUSINESS ADMINISTRATION, MBA

The Lubar School of Business and the University of Wisconsin-Milwaukee College of Nursing collaboratively offer a program designed to provide a combined nursing and business curriculum to strengthen the graduate’s performance as a leader and manager in nursing and health care administration.

Requirements

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

Students are admitted to both the University of Wisconsin-Milwaukee graduate programs in nursing and business administration. The admission requirements are consistent with those specified by the UWM Graduate School, College of Nursing and Lubar School of Business. Applicants may choose to complete either the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre) and must have a BS in Nursing degree and at least two years practice in a health care setting. Three letters of reference are required including one from a former faculty and one from a health care employer.

Credits and Courses

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires Bus Adm 701, Business Mathematics (2 cr), and Bus Adm 703, Financial Accounting (3 cr). Bus Adm 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (http://uwm.edu/graduateschool/admission/#gmat) or GRE (http://uwm.edu/graduateschool/admission/#gre) and must have a BS in Nursing degree and at least two years practice in a health care setting. Three letters of reference are required including one from a former faculty and one from a health care employer.

For the coordinated degree program, students will complete 83 degree credit hours. Students accepted into the MBA/DNP program complete the following courses (each is 3 credits, unless otherwise indicated):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 733</td>
<td>Organizational Development</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 706</td>
<td>Managing in a Dynamic Environment</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 720</td>
<td>Strategic Management in Health Care Organizations 1</td>
<td></td>
</tr>
</tbody>
</table>

Constrained Choice (6 credits)

Choose two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 755</td>
<td>Health Care Administration and Delivery Systems</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 757</td>
<td>Managed Care and Integrated Health Networks</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 759</td>
<td>Seminar in Health Care Management: (Subtitle: Health Economics)</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 83

1 Integrating course for the coordinated degree program.

Program Requirements

A student not completing the requirements for the coordinated degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree. Students must fulfill
the MBA Program Boot Camp and Executive Development activities to meet all graduation requirements.

**DNP Clinical Project**
The candidate will complete a final comprehensive DNP project as part of the residency experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

**Time Limit**
Students in the coordinated MBA/DNP degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
NURSING, BS

The Bachelor of Science in Nursing (BS in Nursing) program at UW-Milwaukee will prepare graduates to be science-based, compassionate nurse leaders through innovative and quality educational programs for all specialties and settings of practice.

As the largest College of Nursing in the state, UW-Milwaukee partners with over 160 clinical agencies to prepare students for beginning positions of responsibility and leadership in providing professional care for clients and their families in a variety of healthcare settings. Classroom and clinical experiences provide students with the knowledge and skills needed to begin a nursing career after graduation including: critical-thinking, clinical leadership, advocacy, and application of the nursing process to deliver care.

The BS in Nursing program is offered on the Milwaukee campus and through a Consortial Program at the UW-Parkside and UW-Washington County campuses.

University of Wisconsin-Milwaukee College of Nursing is accredited through the Council of Baccalaureate and Higher Degree Programs of the Commission on Collegiate Nursing Education (CCNE) and the State of Wisconsin Board of Nursing.

Pre-Professional Program

New Freshmen

Students intending to pursue study in professional nursing are advised to complete the following units (one unit equals one year) in high school:

- 1/2 unit of speech (if available)
- 4 units of a foreign language
- 3 units of college preparatory mathematics at or above algebra level (required by UWM)
- 1/2 unit of computer science
- 1 unit of biology
- 1 unit of chemistry
- 1 unit of history
- 3 units of social studies
- 4 units of English (required by UWM)

In addition to completing high school courses, applicants seeking admission to the pre-nursing program must have a composite ACT score of at least 19 (SAT equivalent of 910).

Transfer Students

Students intending to transfer into the pre-nursing curriculum must meet the following criteria:

1. Completion of a minimum of 15 credits;
2. Cumulative GPA of 2.5 on all completed coursework; and
3. Completion of one transferable science class with a grade of B or better.

(The required pre-nursing science courses include: BIO SCI 101, BIO SCI 202, BIO SCI 203, CHEM 101, CHEM 103, NURS 251 and BMS 332.)

The policies and procedures of the College apply to all students even though the student may be enrolled in courses in another college or school within the University.

The general regulations governing UWM presented in this catalog apply to all pre-nursing students. The pre-nursing classification does not automatically guarantee acceptance into the nursing major.

Non-Nurse College Graduates

After prerequisites are met, non-nurse college graduates may be admitted into the professional nursing major or the master’s (MN) program. Individuals’ records, including consideration of related work experiences, are assessed to assign transfer credit for previous college-level coursework and to offer opportunities for credit by examination.

Professional Program

Students who seek to enter the major and meet eligibility criteria (see below) are required to file an application with the Student Affairs Office, College of Nursing. (This form is in addition to the application form required for admission to the University.) The College of Nursing Undergraduate Program Committee reviews the applications and makes recommendations for admission. Admission to the nursing major is highly competitive. The average GPA of students accepted to the nursing major can be significantly higher than the minimum required GPA of 2.75, and a science minimum GPA of 2.5, needed for application to the major.

Application Deadlines

Students who seek to enter the nursing major in September must submit applications by the preceding January 15; for January entrance the deadline is the preceding August 15.

Eligibility Criteria

Students are required to meet the following criteria to be reviewed for selection into the nursing major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Coursework</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 101</td>
<td></td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>NURS 102</td>
<td></td>
<td>Perspectives on Health Care Systems</td>
<td>2</td>
</tr>
<tr>
<td>NURS 203</td>
<td></td>
<td>Human Growth and Development Across the Life Span</td>
<td>4</td>
</tr>
<tr>
<td>NURS 251</td>
<td></td>
<td>Genetics and Genomics in Healthcare</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td></td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td></td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 101</td>
<td></td>
<td>General Survey of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101</td>
<td></td>
<td>Chemical Science</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 103</td>
<td></td>
<td>Survey of Biochemistry</td>
<td>5</td>
</tr>
<tr>
<td>BMS 332</td>
<td></td>
<td>Clinical Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td></td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td></td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Sociology (any course)</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Professional Admission Requirements

Demonstration of competency in Math and English.
Completion of the Transfer Reference Form must be submitted by the Dean of Nursing if an applicant has been enrolled in clinical nursing courses at another college/university. The form and/or attached letter should reflect a positive recommendation for the student's progression into the nursing major.

An interview with the student making application may be requested at the discretion of the Undergraduate Program Committee.

Demonstration of satisfactory health as evidenced by physical examination and fulfillment of the health and immunization requirements by the appropriate deadline. The College of Nursing reserves the right to require a student to seek advice of healthcare professionals where it is believed that a condition of health would impede his or her progress or jeopardize the health of others. The College of Nursing does not discriminate based on a disability and provides reasonable accommodation to qualified students on an individual basis.

Knowledge of a computer word processing application.

Criminal background check

1 Courses may be repeated only once. No more than three (3) required courses may be repeated. All credit for required courses must have been earned in the 10 years preceding progression into the nursing major. Grades of less than 2.0 (C) must be replaced by grades greater than 2.0 (C) no later than August 31 for fall applicants and December 30 for spring applicants.
2 Achieve a minimum grade point average of 2.75 on a 4.0 scale and 2.5 in the required science courses. This GPA is computed on the courses listed above.
3 Achieve a minimum grade of 2.0 (C) in each required nursing and non-nursing courses.
4 All coursework must be completed with acceptable grades before beginning the nursing major.
5 Enrollment in freshman-level courses is based on placement test scores. Depending on the outcome of the placement tests, one or more preparatory courses may be required before enrollment in higher-level courses is permitted. Credits earned in preparatory courses do not apply to the 124 credits required for graduation.

BS in Nursing Curriculum

Students must earn a minimum of 124 semester credits to complete requirements for the undergraduate degree. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. Thirty semester credits must be completed on the Milwaukee campus; at least 20 of these credits must be earned in nursing. The required courses are listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 108</td>
<td>Algebraic Literacy II</td>
<td></td>
</tr>
<tr>
<td>GER Humanities</td>
<td></td>
<td>6</td>
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<tr>
<td>GER Arts</td>
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<td>3</td>
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<tr>
<td>Any HIST Course</td>
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<td>3</td>
</tr>
<tr>
<td>Any SOCIOL Intro Course (GER Social Science)</td>
<td>3</td>
<td></td>
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<tr>
<td>GER Social Science Elective</td>
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<tbody>
<tr>
<td>BIO SCI 101</td>
<td>General Survey of Microbiology (4 credits)</td>
<td>4</td>
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<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
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<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
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<tr>
<td>BMS 332</td>
<td>Clinical Nutrition (2 credits)</td>
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<tr>
<td>General Electives</td>
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<td>10</td>
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<tr>
<td>GER Foreign Language (satisfied by one of these options):</td>
<td>0-8</td>
<td></td>
</tr>
<tr>
<td>Two years of a single foreign language in high school; or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters of a single foreign language in college; or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demonstrate ability by examination.</td>
<td></td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS 101</td>
<td>Perspectives on Health Care Systems</td>
<td>2</td>
</tr>
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<td>NURS 203</td>
<td>Human Growth and Development Across the Life Span</td>
<td>4</td>
</tr>
<tr>
<td>NURS 251</td>
<td>Genetics and Genomics in Healthcare</td>
<td>2</td>
</tr>
<tr>
<td>NURS 351</td>
<td>Professional Role 1: Foundations of Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 352</td>
<td>Health and Illness Concepts 1: Introduction</td>
<td>3</td>
</tr>
<tr>
<td>NURS 353</td>
<td>Clinical Practicum 1: Foundations</td>
<td>3</td>
</tr>
<tr>
<td>NURS 398</td>
<td>Health Assessment and Promotion in Nursing Practice</td>
<td>3</td>
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<tr>
<td>NURS 399</td>
<td>Concepts of Pathophysiology and Pharmacotherapeutics 1</td>
<td>4</td>
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<tr>
<td>NURS 400</td>
<td>Concepts of Pathophysiology and Pharmacotherapeutics 2</td>
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<td>NURS 419</td>
<td>Concepts of Evidence-based Nursing Practice</td>
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<td>NURS 420</td>
<td>Professional Role 2: Provider of Care</td>
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<td>NURS 421</td>
<td>Health and Illness Concepts 2: Acute and Chronic Conditions</td>
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<td>NURS 422</td>
<td>Clinical Practicum 2: Acute &amp; Chronic Conditions</td>
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<tr>
<td>NURS 430</td>
<td>Professional Role 3: Interprofessional Practice</td>
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<tr>
<td>NURS 431</td>
<td>Health and Illness Concepts IV: Lifespan</td>
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<td>NURS 432</td>
<td>Health and Illness Concepts III: Population Health</td>
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<tr>
<td>NURS 433</td>
<td>Clinical Practicum 3: Population Health</td>
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<tr>
<td>NURS 434</td>
<td>Nursing Informatics and Technology</td>
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<td>NURS 476</td>
<td>Professional Role 4: Leading in Complex Systems</td>
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<td>NURS 477</td>
<td>Health and Illness Concepts 5: Complex</td>
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<td>NURS 478</td>
<td>Clinical Practicum 4: Clinical Intensive</td>
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<td>NURS 479</td>
<td>Clinical Practicum 5: Capstone</td>
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<tr>
<td>NURS 480</td>
<td>Transition to Professional Practice</td>
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</tr>
</tbody>
</table>

Total Credits 124
Health

Good physical and mental health are essential for study and practice in professional nursing. The faculty of the College of Nursing reserves the responsibility for retaining only those students who demonstrate qualities of physical and mental health generally considered to be imperative for professional nursing practice.

Health and accident insurance is not provided for students by the University of Wisconsin-Milwaukee, or by any clinical agency where students may be assigned for clinical experience. Nursing students are expected to provide for their own personal health and accident insurance coverage.

A physical examination and specified immunizations are required of all students prior to enrollment in nursing practice courses. Expenses of this examination are the student’s responsibility. Evidence of a physical examination – to be completed by a nurse practitioner, physician, or a physician assistant of the student’s choice – must be submitted to the UWM College of Nursing Student Affairs Office on a date specified by the College of Nursing. The examination must be completed within 90 days before the date on which the student begins clinical nursing coursework. Students who do not meet these requirements may not continue in a clinical nursing practicum course.

Students are required to pass a 10-panel urine drug screen prior to participating in a clinical nursing practicum course. The purposes of the drug screen are to comply with expectations of area healthcare agencies, to provide optimal healthcare, and to support professional nursing’s zero tolerance position related to the unlawful use of substances. Students must abide by the drug screen policies of each healthcare agency to which they are assigned for clinical practicums. Students are also required to complete a CPR certification program through American Heart Association at a health care provider level.

Illness or Prolonged Absence

Students are expected to be present at all scheduled classes and clinical laboratory experiences. Since space in nursing courses is assigned during the first week of the semester, students are expected to be present for all instructional periods during that week as well. Frequent or prolonged absences from scheduled classes and/or clinical experiences may necessitate that the student drop a nursing course. Any planned interruption in coursework should be discussed with the student’s advisor at the earliest possible date.

Safe Professional Practice in Clinical Settings

Students are expected to demonstrate patterns of professional behaviors that follow the legal and ethical codes of nursing; promote the actual or potential well-being of clients, healthcare workers, and self in the biological, psychological, sociological, and cultural realms; demonstrate accountability in preparation, documentation, communication, and continuity of care; and show respect for the human rights of individuals. A student whose pattern of behavior is found to be unsafe may be terminated from a clinical practicum for reason of unsafe practice at any time during the semester. If the behavior is identified before the drop date, the student will be directed to drop. If the drop date has passed, the student will receive a grade of F for the course. In order to continue in the nursing program, a student who is terminated from a clinical practicum must appeal to the Undergraduate Program Committee for re-admission to the nursing program.

Required Grade Point Average

Every nursing student is required to maintain a minimum of a C average (cumulative GPA of 2.0 on a 4.0 scale) on all work attempted in each semester or summer session. Failure to meet this minimum GPA will automatically result in a status of academic probation.

In addition to maintaining a cumulative GPA of 2.0, a student must earn at least a C (2.0) in each required nursing course. In a practicum nursing course, a student must earn at least a C in both the clinical and theoretical components in order to receive a C as the final course grade.) Any student who earns a grade below C (2.0) in a required nursing course is automatically dropped from the nursing major. Such a student must appeal to the Undergraduate Program Committee for readmission and permission to repeat the course in which a minimum grade of C was not earned.

In a nursing course with limited enrollment or a waiting list, qualified students who have not taken the course previously will have enrollment priority. Progression to the next level of courses is not permitted until all courses of the previous level have been successfully completed.

Dropping Courses

Students should refer to a current class schedule for information concerning existing University of Wisconsin-Milwaukee drop policy guidelines and any exceptions for individual courses.

Following admission to the nursing major, a student who wishes to drop from a required or elective clinical nursing course or to withdraw must discuss the matter with the instructor, course coordinator or department chair, and the Associate Dean for Academic Affairs. In addition, the student may wish to discuss the matter with an academic advisor in the Student Affairs Office. Written approval to drop must be secured from the instructor and the Associate Dean irrespective of the week of the semester. Any such interruption in the sequence of courses following acceptance into the major requires re-admission to the clinical major. Information about applying for re-admission is available in the College of Nursing’s Student Affairs Office.

Grievance Procedure

The College of Nursing has a formal written grievance procedure, available in the College of Nursing’s Student Affairs Office. A grievance is defined as any situation affecting the status of a student in which the student believes his/her rights have been compromised or denied because of an erroneous or arbitrary interpretation or application of rules. Student grievances are reviewed by the College of Nursing’s Undergraduate Program Committee, which recommends the disposition of the grievance to the Associate Dean for Academic Affairs. In addition, this Committee reviews and acts upon all cases of academic misconduct as described in Chapter UWS 17, UWM Student Disciplinary Procedures.

Student Responsibilities in the Major

Students are expected to provide their own transportation, uniforms, books, supplies, equipment, and other learning resources, such as clients for practice experience, as deemed necessary to meet course objectives.
Travel
Students in nursing are responsible for arranging transportation to and from all agencies or clients’ homes used to provide clinical experience for the program. They are also responsible for any related liability. Students are expected to carry insurance on their vehicles.

Uniforms
Information about the uniform, a one-time investment, is sent to each student with the official letter of acceptance into the major. Students purchase their uniforms after acceptance.

Professional Credentials
Wisconsin state law requires nurses to be licensed to practice nursing within the state. Licensure is obtained by endorsement or by passing an examination. Students graduating from the College of Nursing are eligible to write the examination if they:

1. are at least 18 years of age;
2. are graduates of a high school or its equivalent;
3. are able to speak, read, and write English; and
4. pay the fee for licensure.

Applicants for registration/licensure in the State of Wisconsin will be asked to state if they have ever been convicted of a criminal offense, excluding minor traffic violations. When individuals have such a conviction, an explanation is requested. An investigation may follow depending upon the circumstances and all the facts related to the situation. Some organizations may require background reviews prior to acceptance of a student by the placement site.

Individual course plans may vary. Consult your academic advisor to confirm a plan of study.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>MATH 105</td>
<td>Introduction to College Algebra</td>
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<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 102</td>
<td>Perspectives on Health Care Systems</td>
<td>2</td>
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<tr>
<td>NURS 103</td>
<td>Freshman Seminar in Professional Nursing</td>
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<tr>
<td>CHEM 100</td>
<td>Chemical Science</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>SOCIO1 Course (GER Social Science)</td>
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<td></td>
</tr>
<tr>
<td>GER Social Science Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Credits</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
<td>5</td>
</tr>
<tr>
<td>NURS 203</td>
<td>Human Growth and Development Across the Life Span</td>
<td>4</td>
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<tr>
<td>NURS 251</td>
<td>Genetics and Genomics in Healthcare</td>
<td>2</td>
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<tr>
<td>History/GER Humanities Elective</td>
<td>3</td>
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<tr>
<td>GER Humanities Elective</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Credits</td>
<td>17</td>
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</tbody>
</table>

Competencies/Program Outcomes
The graduate of the UWM College of Nursing is prepared to practice as a beginning generalist in a variety of settings. In addition, the graduate will possess knowledge and skills that qualify her or him to pursue life-long learning and advanced study. The UWM College of Nursing undergraduate and graduate programs are directed toward enhancing the health of those who live and work in urban communities.

Patient-centered Care
The graduate will provide holistic care that recognizes patients’ (individuals, families, groups, and communities) preferences, values, and needs and respects patients or their designees as full partners in providing compassionate, coordinated, age and culturally appropriate, safe and effective care.

Professionalism
The graduate will demonstrate accountability for the delivery of standard based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles.
Leadership
The graduate will influence the behavior of individuals or groups of individuals within the environment in a way that will facilitate the establishment and acquisition/achievement of shared goals.

Systems-based Practice
The graduate will demonstrate an awareness of and responsiveness to the larger context of the health care system, and will demonstrate the ability to effectively call on microsystem resources to provide care that is of optimal quality and value (Adapted from ACGME, n.d.).

Informatics and Technology
The graduate will use information and technology to communicate, manage knowledge, mitigate error, and support decision making (QSEN, 2007).

Communication
The graduate will interact effectively with patients, families, and colleagues, fostering mutual respect and shared decision making, to enhance patient satisfaction and health outcomes.

Teamwork and Collaboration
The graduate will function within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning, and development (Adapted from QSEN, 2007).

Safety
The graduate will minimize risk of harm to patients and providers through both system effectiveness and individual performance (QSEN, 2007).

Quality Improvement
The graduate uses data to monitor the outcomes of care processes, and uses improvement methods to design and test changes to continuously improve the quality and safety of health care systems (QSEN, 2007).

Evidence-based Practice
The graduate will identify, evaluate, and use the best current evidence coupled with clinical expertise and consideration of patients’ preferences, experience and values to make practice decisions (Adapted from QSEN, 2007).

Honors in the College of Nursing

Dean’s Honor List
GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
There are two entry options for the Master of Nursing Program.

1. Traditional program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Direct Entry program for individuals with a degree in a field other than nursing and are not licensed as a Registered Nurse. This option includes an additional 16 month curriculum at the beginning of the program that leads to eligibility to sit for the NCLEX-RN examination.

**Doctor of Nursing Practice**

There are two entry options for the Doctor of Nursing (DNP) Practice Program.

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

Admission to the traditional program is the fall and spring of each year. Admission to the direct entry program is fall only. The admission requirements of the Advanced Generalist master’s program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

**Traditional Option**

1. A bachelor’s degree in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 2.75 (4.0 scale).
2. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the five years immediately preceding admission.
3. Current registration as a professional nurse in the State of Wisconsin.
4. Completion of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) within the last five years. The GRE requirement is waived for applicants whose prior education includes completion of a master’s degree or a cumulative undergraduate GPA of 3.2 or higher as calculated by the UWM Graduate School.
5. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experiences. Personal interview with a faculty member may be requested.
6. Completion of an autobiographical sketch.

**Direct Entry Option**

1. A bachelor’s degree, with a minimum undergraduate grade point average of at least 3.00 (4.0 scale). Applicants with an undergraduate grade point average below a 3.00 but above a 2.75 may be considered for admission if, by the application deadline, the student either:
   a. Has an advanced degree with a grade point average above 3.00, or
   b. Has completed a minimum of 24 credits post-baccalaureate with a grade point average above 3.00. At least one required science course must be included in the post-baccalaureate work.
2. Completion, with a grade of B or higher, and within the five years immediately preceding admission, of college coursework in the following areas:
   - upper-level undergraduate course in statistics
   - anatomy and physiology
   - growth and development
   - microbiology
   - biochemistry
   - nutrition
3. Completion of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) within the last five years. The GRE requirement is waived for applicants whose prior education includes completion of a master’s degree or a cumulative undergraduate GPA of 3.2 or higher as calculated by the UWM Graduate School.
4. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant’s recent academic and work experience. A personal interview with a faculty member may be requested.
5. Completion of an autobiographical sketch.

These data are used by the Admissions Subcommittee as indicators of academic potential.

**Faculty Advisor**

The student is assigned to a faculty advisor at the time of admission to advise and supervise the student’s studies as specified in Graduate School regulations.

**Credits and Courses**

**Direct Entry Curriculum**

Students admitted to the Direct Entry Option complete a 16-month, full-time pre-licensure curriculum prior to beginning the advanced practice nursing master’s program. Successful completion of all courses in the pre-licensure curriculum with a grade of B- or better is required prior to beginning the advanced practice nursing curriculum. Attainment of a Registered Nurse license is required prior to beginning the summer of the second year of the program.

**Pre-licensure Curriculum**

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<tr>
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<td>NURS 654</td>
<td>Health Assessment and Promotion</td>
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<tr>
<td>NURS 657</td>
<td>Pharmacotherapeutics for Nursing Practice</td>
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<tr>
<td>NURS 653</td>
<td>Foundations in Pathophysiology for Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
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<tr>
<td>NURS 670</td>
<td>Nursing Care of Adults and Older Adults I</td>
<td>3</td>
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<tr>
<td>NURS 671</td>
<td>Nursing Care of Adults and Older Adults II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 672</td>
<td>Nursing Care of Women and Infants</td>
<td>2</td>
</tr>
<tr>
<td>NURS 673</td>
<td>Nursing Care of Children and Families</td>
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<tr>
<td>NURS 674</td>
<td>Mental Health Nursing Care Across the Lifespan</td>
<td>2</td>
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<tr>
<td>NURS 717</td>
<td>Community Health Nursing</td>
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<td>NURS 681</td>
<td>Professional Role in Health Care Systems</td>
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<td>NURS 680</td>
<td>Nursing and Society</td>
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<td>NURS 685</td>
<td>Clinical Reasoning</td>
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<td>NURS 686</td>
<td>Professional Nursing Practicum I</td>
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<td>NURS 688</td>
<td>Professional Nursing Practicum II (5 credits if enrolled before Fall 2015)</td>
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Total Credits: 44

1 44 Credits (45 if enrolled before Fall 2015).
2 Connotes clinical course or clinical component.

**Master of Nursing Curriculum**

**Post-Licensure**

If enrolled Fall 2015 or after:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>NURS 712</td>
<td>Health Promotion Perspectives</td>
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<tr>
<td>NURS 720</td>
<td>Biostatistics and Applications for Nursing Practice</td>
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<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare I</td>
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</tr>
<tr>
<td>NURS 727</td>
<td>Epidemiology</td>
<td>3</td>
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<tr>
<td>NURS 750</td>
<td>Outcomes and Quality Management</td>
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<tr>
<td>NURS 773</td>
<td>Information Systems to Support Clinical Decision-Making</td>
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<tr>
<td>NURS 803</td>
<td>Health Policy</td>
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**Direct Care Core**

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<th>Title</th>
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<tr>
<td>NURS 707</td>
<td>Advanced Pharmacology: Application to Advanced Nursing Practice</td>
<td>3</td>
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<tr>
<td>NURS 753</td>
<td>Physiologic Basis of Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 754</td>
<td>Comprehensive Assessment of Health: Implications for Clinical Decision-Making</td>
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**Clinical Nurse Leader Role Competencies & Clinical Expectations**

<table>
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<tr>
<td>NURS 709</td>
<td>Leading and Managing in Systems of Care</td>
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<tr>
<td>NURS 723</td>
<td>Evidence-Based Care Management</td>
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<tr>
<td>NURS 734</td>
<td>Care Management Practicum</td>
<td>3</td>
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<tr>
<td>NURS 789</td>
<td>Master of Nursing Residency (Fulfills Master's Capstone Requirement)</td>
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Total Credits: 42

1 Connotes clinical course or clinical component

**RN to MN Option**

The RN to MN track is designed for RN students who are interested in completing both a BS and a MN degree. Students in this option complete 9 credits of graduate core courses while enrolled in the BS in Nursing program designed for Registered Nurses. In the last semester of the BS program, they apply for admission to the graduate program. In addition to the admission requirements described above, students will be required to have completed the 9 credits of graduate core courses with a grade of B- or better. Upon admission they complete the remaining 24 required credits in the post-licensure MN curriculum.

**Program Requirements**

**Minimum Grade Requirement**

For continuance in the program, in addition to general Graduate School requirements students must achieve a minimum grade of B- in all required Master of Nursing practicum courses and a minimum grade of B- in all other required courses and a cumulative GPA of 3.00.

**Master’s Clinical Project**

The student will complete a final comprehensive clinical project.

**Time Limit**

Students in the Master of Nursing program must complete all degree requirements within seven years of the first enrollment semester as a degree student.
NURSING, PHD

Doctor of Nursing Practice
There are two entry options for the Doctor of Nursing (DNP) Practice Program.

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.

The PhD program in Nursing at the University of Wisconsin-Milwaukee prepares nurses as scholars to conduct independent and collaborative research, to develop and test theory relevant to nursing, and to improve the quality of care by expanding the body of nursing knowledge. Scholars will be prepared to serve the urban community and improve the general accessibility and acceptability of health care.

Specialization is achieved through an approved program of study and includes program elements of coursework, dissertation, and direction of faculty advisors. This specialization is focused on a particular area of nursing practice and the social context within which it occurs.

Requirements

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following College of Nursing requirements to be considered for admission to the doctoral program in Nursing:

1. A bachelor’s or master’s degree with a major in nursing from a professionally accredited college of nursing.
2. A cumulative grade point average of 3.2 on a 4.0 scale for all previous coursework.
3. Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years.
4. Completion of a graduate-level statistics course with a grade of B or better within the last 5 years.
5. Current registration in nursing in one of the jurisdictions of the United States or in another country.
6. A written statement prepared by the applicant describing previous professional experience, personal career goals, research interests motivation for doctoral study, and educational objectives to be accomplished in the program.
7. Recommendations from at least three persons who have known the applicant in a professional capacity.
8. Two examples of original work that demonstrate the applicant’s academic potential.
9. An interview may be required of applicants to the doctoral program. Telephone or Skype interview may be used when travel is prohibitive.

Reapplication
A student who receives the master’s degree must formally reapply for admission to the Graduate School before continuing studies toward the Ph.D.

Credits and Courses
Minimum degree requirements are 61 graduate credits beyond the bachelor’s degree, at least 31 of which must be earned in residence at the University of Wisconsin-Milwaukee. The College of Nursing requires a minimum of 49 graduate credits beyond the master’s degree in nursing or master’s graduate core courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 801</td>
<td>Foundations of Inquiry for Health Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 802</td>
<td>The Science of Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>NURS 820</td>
<td>Analysis of Nursing Phenomena</td>
<td>3</td>
</tr>
<tr>
<td>NURS 8808</td>
<td>Multivariate Statistics for Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>NURS 881</td>
<td>Measurement for Health Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 882</td>
<td>Qualitative Methods in Health Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 883</td>
<td>Quantitative Methods in Health Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 885</td>
<td>Advanced Quantitative Methods in Health Research</td>
<td>3</td>
</tr>
<tr>
<td>or NURS 886</td>
<td>Advanced Qualitative Methods in Health Research</td>
<td></td>
</tr>
<tr>
<td>NURS 890</td>
<td>Issues in Scholarship</td>
<td>3</td>
</tr>
<tr>
<td>NURS 899</td>
<td>Practicum in Nursing Research</td>
<td>4</td>
</tr>
<tr>
<td>NURS 997</td>
<td>Doctoral Dissertation (3 credits minimum)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 61

Specialization is achieved through an approved program of study and includes program elements of minor field coursework, supervised research experiences, dissertation, and the direction of faculty advisors. The student specializes in a particular area of nursing practice and the social context within which it occurs. The plan for this is developed in consultation with the major professor. Minimum requirements for all formal coursework other than dissertation research can be expected to take at least two academic years of study.

Students admitted without a master’s degree in nursing must complete 12 credits of master’s program graduate core courses before beginning doctoral level nursing courses. The graduate core courses that must be completed are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 725</td>
<td>Evidence Based Practice in Healthcare I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 727</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
</tbody>
</table>
Post baccalaureate students admitted to the doctoral program will not be granted a master's degree in nursing unless all requirements for the master's degree in nursing are met.

**Program Requirements**

**Major Professor as Advisor**
The student is expected to affirm their Major Professor by the end of her/his second semester of full-time study or the equivalent in earned credits. The date for submission will be published for each semester by the PhD Program Director. The Major Professor will be the student’s research advisor, and will serve as chairperson of his/her Comprehensive Preliminary Examination Committee and the Dissertation Committee. The PhD student must select a Major Professor who is a member of the graduate faculty of the College of Nursing and who has agreed to serve.

**Minimum Grade Requirement**
For continuation in the program, in addition to general Graduate School requirements (http://uwm.edu/graduateschool/academic-policies-procedures), students must achieve a minimum grade of B- in all required courses.

**Minor Field**
The student must complete a minor of 8 to 12 credits, 6 or more of these credits to be earned from courses in departments outside the College of Nursing. Such courses are selected for their relevance to the student’s area of specialization, and are to be taken in the substantive content of the selected minor field.

**Language Requirement**
Foreign language competency may be required at the option of the student’s major professor.

**Residence**
The student must meet minimum Graduate School residence requirements.

**Doctoral Preliminary Examination**
The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student’s mastery of the content of the doctoral program curriculum and readiness to conduct independent research within the student’s area of specialization as identified in the formal plan of study.

**Dissertation**
The candidate must write a dissertation, which demonstrates ability to formulate a research topic and pursue independent and original investigation under the direction of the major professor.

**Dissertation Defense**
The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and readmitted to the program and/or candidacy.

**Time Limit**
The student must complete all requirements for the degree within seven years from the date of initial enrollment in the program. The student must complete all requirements for the degree within four years from the time of attainment of dissertator status.

For additional information on the Ph.D., see the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements) page.
Flexible, affordable options have been arranged for Registered Nurses to facilitate BSN completion. These include face-to-face courses offered in partnership with area hospitals and technical colleges, the collaborative University of Wisconsin System BSN@Home online option, and the UW Flexible Option allowing for the demonstration of competency through assessment. Registered Nurses who wish to earn a baccalaureate degree can progress on a full- or part-time basis, at a speed compatible with their other personal and professional commitments.

Nurses who graduated from Wisconsin Technical Colleges after Dec. 31, 1989, can transfer credits from these programs through formal VTAE articulation agreements.

Admission

Admission requirements for all RN-BSN completion programs include a past Associate's Degree or Diploma in nursing and a past cumulative GPA of 2.5 or higher as well as a Wisconsin or Illinois registered nursing license. Registered Nurses follow admission procedures for transfer students, with deadlines well in advance of the beginning of each semester. The UW Flexible Option has unique admission requirements and admits students every month. For additional information about the UW Flexible Option, students can call 1-877-895-3276. To ensure success in enrollment and advising, individuals interested in BSN completion, online or face-to-face, should consult with an advisor in the Student Affairs Office, (414) 229-5047. The advisor will provide information on all degree completion options and route the student through the appropriate admission procedures.

RN to BS Curriculum

Registered Nurse students must earn a minimum of 124 semester credits to complete requirements for the undergraduate degree. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. Thirty semester credits must be completed on the UWM campus; at least 20 of these credits must be earned in nursing.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Nursing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>3-6</td>
</tr>
<tr>
<td>The Arts</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Growth and Development</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural/Biological Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Biochemistry (or alternative)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 202 &amp; BIO SCI 203</td>
<td>Anatomy and Physiology I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>Microbiology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Nutrition</td>
<td></td>
<td>2-3</td>
</tr>
</tbody>
</table>

Electives 19-25

<table>
<thead>
<tr>
<th>Competencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
</tr>
<tr>
<td>English</td>
</tr>
<tr>
<td>Cultural Diversity</td>
</tr>
<tr>
<td>Foreign language (may or may not apply)</td>
</tr>
</tbody>
</table>

Nursing

Advanced Nursing Courses

| UWS NSG 407 | Foundations of Professional Nursing Practice       | 3       |
| UWS NSG 441 | Chronic Care Management                            | 3       |
| UWS NSG 446 | Research and Evidence-Based Practice               | 3       |
| UWS NSG 447 | Leadership and Management                          | 3       |
| UWS NSG 453 | Information Management and Healthcare Technology  | 3       |
| UWS NSG 454 | Community Health Nursing                           | 3       |
| NURS 445    | Capstone Practicum for Registered Nurses           | 3       |

Nursing Electives 9

Previous Nursing

30 Nursing credits are awarded for previous nursing experience upon admission.

Total Credits 124

1 Demonstration of mathematics and English proficiency by Registered Nurse students is a requirement for enrollment in Capstone Practicum for Registered Nurses (NURS 445). Refer to the UWM Timetable (http://www4.uwm.edu/schedule) for definition of competencies.

2 Registered Nurse students are permitted to enroll in courses out of the usual sequence in the undergraduate curriculum with the exception of Capstone Practicum for Registered Nurses (NURS 445). This is the final course and all other required courses are prerequisite to this course.

Competencies/Program Outcomes

The graduate of the UWM College of Nursing is prepared to practice as a beginning generalist in a variety of settings. In addition, the graduate will possess knowledge and skills that qualify her or him to pursue life-long learning and advanced study. The UWM College of Nursing undergraduate and graduate programs are directed toward enhancing the health of those who live and work in urban communities.

Patient-centered Care

The graduate will provide holistic care that recognizes patients’ (individuals, families, groups, and communities) preferences, values, and needs and respects patients or their designees as full partners in providing compassionate, coordinated, age and culturally appropriate, safe and effective care.

Professionalism

The graduate will demonstrate accountability for the delivery of standard based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles.

Leadership
The graduate will influence the behavior of individuals or groups of individuals within the environment in a way that will facilitate the establishment and acquisition/achievement of shared goals.

**Systems-based Practice**
The graduate will demonstrate an awareness of and responsiveness to the larger context of the health care system, and will demonstrate the ability to effectively call on microsystem resources to provide care that is of optimal quality and value (Adapted from ACGME, n.d.).

**Informatics and Technology**
The graduate will use information and technology to communicate, manage knowledge, mitigate error, and support decision making (QSEN, 2007).

**Communication**
The graduate will interact effectively with patients, families, and colleagues, fostering mutual respect and shared decision making, to enhance patient satisfaction and health outcomes.

**Teamwork and Collaboration**
The graduate will function within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning, and development (Adapted from QSEN, 2007).

**Safety**
The graduate will minimize risk of harm to patients and providers through both system effectiveness and individual performance (QSEN, 2007).

**Quality Improvement**
The graduate uses data to monitor the outcomes of care processes, and uses improvement methods to design and test changes to continuously improve the quality and safety of health care systems (QSEN, 2007).

**Evidence-based Practice**
The graduate will identify, evaluate, and use the best current evidence coupled with clinical expertise and consideration of patients' preferences, experience and values to make practice decisions (Adapted from QSEN, 2007).

**Honors in the College of Nursing**

**Dean's Honor List**
GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

**Honors Degree and Honors Degree with Thesis**
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

**Commencement Honors**
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

**Final Honors**
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.
SUSTAINABLE PEACEBUILDING, MSP

The College of Nursing offers an interdisciplinary professional graduate degree program leading to a Master of Sustainable Peacebuilding (MSP). The MSP is designed to prepare students for careers in peacebuilding—e.g. international development, conflict resolution, resource stewardship. The MSP curriculum is designed to develop student expertise in systems thinking, social-ecological interactions, and the application of such concepts to peacebuilding and development fields. In addition to fulfilling all Graduate School master’s degree requirements (http://uwm.edu/graduateschool/masters-requirements), MSP students are required to take 44 credits over the course of six semesters—two full calendar years. Only full-time students will be accepted to the program.

Students completing the MSP will:

- Classify the various components of complex social-ecological systems and identify appropriate intervention strategies.
- Recognize patterns of human-environment interaction, including drivers of change resulting in conflict, development, and peacebuilding.
- Acquire critical knowledge across at least four distinct disciplines relevant to development and peacebuilding and relate and translate knowledge among the disciplines.
- Facilitate effective group problem-solving processes, which includes communicating confidently and effectively to diverse audiences.
- Assess systemic outcomes of peacebuilding programs and policies and recommend adaptive modifications for improvement.

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

The Master of Sustainable Peacebuilding admits students to begin in fall semester only. Applicants must satisfy Graduate School requirements (http://uwm.edu/graduateschool/admission) for admission as well as provide the following materials:

1. Two letters of recommendation from persons familiar with the applicant’s academic or professional work, preferably one academic and one professional recommendation.
2. A writing sample that demonstrates the applicant’s critical thinking, research, and writing skills as well as the applicant’s ability to think across disciplines.
3. A current resume that clearly articulates the applicant’s professional, international, and intercultural experiences as well as language exposure and proficiencies.

Please check the MSP Website (http://www4.uwm.edu/letsci/msp) for up-to-date information on eligibility, application requirements, and deadlines.

Advising

As specified in the regulations of the Graduate School, a major professor will be assigned to every person enrolled in the program to advise and supervise his or her work. Those admitted to the program will consult with the MSP coordinator for assistance in identifying an appropriate major advisor. The responsibility of this advisor will be to assist in selecting a cohesive sequence of courses and developing a rationale for that sequence. The major professor and MSP Coordinator must approve the Plan of Study. Students may request a specific faculty advisor who aligns with their research and professional interests, if desired; however, fulfillment of such requests are not guaranteed.

Credits and Courses

44 credits are required for the MSP degree, distributed as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSP 760</td>
<td>The Politics and Policy of Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>MSP 761</td>
<td>Complex Human-Environmental Interactions</td>
<td>3</td>
</tr>
<tr>
<td>MSP 770</td>
<td>Preparing for Sustainable Peacebuilding and Social Change</td>
<td>3</td>
</tr>
<tr>
<td>MSP 771</td>
<td>Holistic Peacebuilding Practice</td>
<td>3</td>
</tr>
<tr>
<td>MSP 780</td>
<td>Transdisciplinary Research Methods and Information Literacy</td>
<td>2</td>
</tr>
<tr>
<td>MSP 781</td>
<td>Innovation, Evaluation, and Adaptive Management</td>
<td>2</td>
</tr>
<tr>
<td>MSP 790</td>
<td>Workshop on Negotiation and Group Problem Solving Skills</td>
<td>2</td>
</tr>
<tr>
<td>MSP 791</td>
<td>Leadership and Program Management for Sustainable Peacebuilding</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives

Select 12 credits in consultation with advisor(s); each course should fit into one of the following content areas:

- Public and Environmental Health
- Ecosystem Services and Resource Stewardship
- Political Economy
- Human Security and Development
- Language and Culture
- Religion and Belief Systems
- Governance and Policy

Independent Study

Students may register for the following with approval from the supervising faculty member and the student’s faculty advisor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSP 799</td>
<td>Independent Study</td>
<td>12</td>
</tr>
</tbody>
</table>

Fieldwork

Select one of the following for two (six-week) fieldwork experiences (6 credits each):

- MSP 797 | Study Abroad                             | 1       |
- MSP 798 | Internship in Sustainable Peacebuilding  | 1       |

Total Credits 44
Students will complete two (six-week) fieldwork experiences (6 credits each), locally in Milwaukee, elsewhere in the U.S., or abroad. The program is designed so that students will complete fieldwork during the summer semester between Year 1 and Year 2, and again during the summer semester after Year 2. Students will engage in work that focuses on a pertinent issue in the broader context of peacebuilding, e.g. food security, water conflict, public health, etc. Students will select from current MSP projects, or develop their own projects.

**Program Requirements**

**Master’s Paper**
All students must prepare and orally defend a final master’s paper following the second summer internship. The master’s paper—an “Integrative Synthesis”—will reflect upon a student’s breadth of experiences during the MSP program, and clearly demonstrate a student’s ability to formulate an argument, analyze data, systematically present results, and show familiarity with relevant scholarship. The paper will be a critical discussion of core MSP concepts as they relate to peacebuilding, based upon a student’s coursework and, primarily, internship experiences. Each student, throughout the course of study, will keep a portfolio containing items such as coursework, internship evaluations, and additional elements to help guide the Integrative Synthesis. To ensure students are progressing such that they will be successful in their final papers and presentations, the faculty advisor and MSP program coordinator will assess with each student his/her portfolio periodically during the course of study to address deficiencies and advise the student regarding appropriate adjustments.

**Transfer Credits**
Individuals with prior graduate coursework may receive permission to count up to 9 credits of that work toward the Master of Sustainable Peacebuilding if the Advisory Committee accepts the courses as relevant to the program of study and if the courses meet Graduate School requirements for transfer. Sustainable Peacebuilding core breadth courses, seminars, and the summer field internships must be taken at UWM.

**Time Limit**
All degree requirements must be completed within five years of initial enrollment.
TRAUMA INFORMED CARE, GRADUATE CERTIFICATE (COLLEGE OF NURSING)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Pantera Admission Application (https://graduateschool-apply.uwm.edu).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Pantera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

Credits and Courses
All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/COUNS/</td>
<td>Trauma Counseling I: Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS/OCCTHPY 774</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK/COUNS/</td>
<td>Trauma Counseling II: Diagnosis and Treatment</td>
<td>3</td>
</tr>
<tr>
<td>NURS/OCCTHPY 775</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electives
Select 9 elective credits (see Potential Electives list below) 9

Recommended Field Work
Select 3-6 credits from the following 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I</td>
<td>1-6</td>
</tr>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
<td></td>
</tr>
</tbody>
</table>

Potential Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 921</td>
<td>Field Instruction V</td>
<td>1-6</td>
</tr>
<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
<td>2</td>
</tr>
<tr>
<td>COUNS 765</td>
<td>Supervised Practicum 1 in Clinical Mental Health Counseling</td>
<td>2</td>
</tr>
<tr>
<td>NURS 737</td>
<td>Clinical Nurse Specialist: Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 738</td>
<td>Clinical Nurse Specialist: Practicum II</td>
<td>2</td>
</tr>
<tr>
<td>NURS 739</td>
<td>Clinical Nurse Specialist: Practicum III</td>
<td>2</td>
</tr>
<tr>
<td>OCCTHPY 725</td>
<td>Occupational Therapy Field Service I</td>
<td>1-3</td>
</tr>
<tr>
<td>OCCTHPY 735</td>
<td>Occupational Therapy Field Service II</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Total Credits 18-21

Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in in trauma-informed practice field settings, contingent on the respective department’s field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Occupational Therapy—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK/COUNS/CRM JST 497</td>
<td>Study Abroad: (Bristol or South Africa)</td>
<td>1-6</td>
</tr>
<tr>
<td>SOC WRK 820</td>
<td>Seminar in Social Work Practice: (Qualifying topics: Violent &amp; Traumatized Families or Motivational Interviewing)</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 754</td>
<td>Child and Adolescent Psychopathology</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 691</td>
<td>Practice Methods in Social Work: (Topic: Community Building &amp; Mindfulness)</td>
<td>3-1</td>
</tr>
<tr>
<td>SOC WRK 680</td>
<td>Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 818</td>
<td>Treatment of Co-Occurring Disorders</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 711</td>
<td>Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning &amp; Memory)</td>
<td>1-4</td>
</tr>
<tr>
<td>PSYCH 727</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PH 732</td>
<td>Youth Mental Health Practice for Non Mental Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 704</td>
<td>Multicultural Mental Health Guidelines and Ethics Overview and Multicultural Practice: Awareness and Knowledge of Others</td>
<td>6</td>
</tr>
<tr>
<td>&amp; COUNS 705</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COUNS 715</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 744</td>
<td>Multicultural Mental Health Guidelines, Working with First Nations Persons</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 812</td>
<td>Clinical Studies in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 816</td>
<td>Counseling Children and Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 820</td>
<td>Counseling Appraisal and Clinical Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>COUNS 904</td>
<td>Family Systems Theory, Research, and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>
COUNS 704 and COUNS 705 must be taken together to fulfill this requirement.

Program Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:

• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
Prepare for a career in public health by focusing your studies in Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration through graduate work at the Zilber School of Public Health. The Bureau of Labor Statistics reports that hospitals, government agencies and research organizations need more public health professionals.

About Public Health
Public health is concerned with protecting the health and well-being of entire communities and populations. It is the science and art of preventing disease, prolonging life, and promoting health and well-being through the organized efforts of society. Whereas medicine mostly treats people once they become sick, those of us working in public health try to prevent people from getting sick or injured in the first place.

Public health asks:
• What makes some people healthy and others less healthy?
• How can we create a society in which everyone has a chance to thrive?

From conducting scientific research to advocating for policies and educating about health, public health professionals work to ensure conditions in which all people can be healthy. These include the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems that shape these conditions of daily life. Thus, public health covers a wide range of factors that affect population health and well-being, such as economic and social policies, poverty, environmental hazards, access to quality healthcare, health-promoting behaviors, and genes.

The Joseph J. Zilber School of Public Health embraces its mission to advance population health, health equity, and social and environmental justice among diverse communities in Milwaukee, the state of Wisconsin, and beyond through education, research, community engagement, and advocacy for health-promoting policies and strategies. We educate current and future public health professionals in the science, practice, critical thinking, and leadership skills necessary to promote population health and reduce health inequities.

Degree Programs
The Zilber School of Public Health offers graduate degree programs and select undergraduate courses in-person and online. An undergraduate BS degree in Public Health is under development and will begin as early as fall 2018. Current undergraduate public health courses cover a range of topics, helpful to prepare for many careers. Start with an introductory course—PH 101 (p. 1865) and/or PH 142 (p. 1866)—and if they spark your interest, enroll in a specialized, more advanced class. These cover topics as diverse as climate change and human health (PH 303), adolescent health (PH 306), and how factors like race and racism impact population health (PH 319). PH 101 and PH 306 meet the Social Sciences (SS) GER, and PH 303 meets the Natural Sciences (NS) GER.

Our graduate degree programs include four doctoral programs—Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, and Epidemiology—and the Master of Public Health (http://uwm.edu/publichealth) (MPH) degree with five tracks:
• Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, and Public Health Policy and Administration (http://uwm.edu/publichealth/mph-public-health-policy-administration).

Graduates from across UWM may have an interest in one of these exciting programs of study. Interested undergraduates should contact applyph@uwm.edu to learn more.

Programs
• Environmental Health Sciences, PhD (p. 1860)
• Epidemiology, PhD (p. 1862)
• Interprofessional Graduate Certificate in Public and Population Health (Zilber School of Public Health) (p. 1864)
• Public Health, MPH (p. 1887)
• Public Health, MPH: Biostatistics (p. 1866)
• Public Health, MPH: Community and Behavioral Health Promotion (p. 1869)
• Public Health, MPH: Environmental Health Sciences (p. 1872)
• Public Health, MPH: Epidemiology (p. 1875)
• Public Health, MPH: Public Health Policy and Administration (p. 1878)
• Public Health, PhD (p. 1889)
• Public Health, PhD: Biostatistics (p. 1881)
• Public Health, PhD: Community and Behavioral Health Promotion (p. 1884)

PH 101 Introduction to Public Health
3 cr. Undergraduate.
Introduction to history, science and philosophy of Public Health including scientific research, policy development and health education.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

PH 142 Exploring Global Environmental Health
3 cr. Undergraduate.
Introduction to the sciences underpinning the study and response to infectious, chemical, and physical environmental threats to human health within a global public health framework.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

PH 201 Public Health from Cells to Society I
3 cr. Undergraduate.
Introduces public health as a holistic interdisciplinary field spanning cell to society. Emphasizes active learning about current public health problems from multilevel and lifecourse perspectives.
Prerequisites: Prerequisites: PH 101(P) or PH 142(P), BioSci 102(C).
Current Offerings: http://uwm.edu/schedule
PH 202 Public Health from Cells to Society II
3 cr. Undergraduate.
Introduces multilevel societal drivers of health inequities over the lifespan. Actively explores how social inequality gets under the skin to influence current public health problems.
Prerequisites: PH 201(P); Kin 270(R) or MthStat 215(R).
Current Offerings: http://uwm.edu/schedule

PH 206 Child and Adolescent Health
3 cr. Undergraduate.
Review evidence-based child and adolescent health promotion in school, community, and clinical settings; Adolescent risk behaviors of special interest.
Prerequisites: none.
Last Taught: Spring 2012.
Current Offerings: http://uwm.edu/schedule

PH 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: Retakable w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PH 302 Health and Disease: Concepts and Contexts
3 cr. Undergraduate.
Concepts of health and disease across social, historical, political, and cultural contexts, with particular attention to the workings of race, gender, and sexuality.
Prerequisites: jr st & satisfaction of OWC-B.
Current Offerings: http://uwm.edu/schedule

PH 303 Climate Change, the Environment and Human Health
3 cr. Undergraduate.
Acquire knowledge about and be able to identify ways in which climate change adversely affects human health globally, nationally and locally.
Prerequisites: soph st; or cons instr.
General Education Requirements: NS
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PH 306 Adolescent Health & Development
3 cr. Undergraduate.
A public health perspective on adolescent development and health/mental health promotion Readings, assignments and activities focus on drug use, sexuality, obesity, trauma, depression and violence.
Prerequisites: Psych 101(P) or PH 101(P) or cons instr.
General Education Requirements: SS
Last Taught: Spring 2016.
Current Offerings: http://uwm.edu/schedule

PH 319 Introduction to Health Disparities
3 cr. Undergraduate.
An introduction to health inequalities as they pertain to racial and ethnic populations in the U.S. and an overview of key determinants of population health.
Prerequisites: none.
Last Taught: Spring 2012.
Current Offerings: http://uwm.edu/schedule

PH 327 Foundations for Action in Public Health
3 cr. Undergraduate.
History, perspectives, and theoretical foundations of taking action and making change in public health and related disciplines.
Prerequisites: sophomore standing; PH 101(P); satisfaction of GER OWC Part A.
Current Offerings: http://uwm.edu/schedule

PH 345 Green fish, green worms & more: animal models and their applications
3 cr. Undergraduate.
An introduction to the field of applied public health biology where animal models are being utilized to determine how environmental contaminants influence human health.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

PH 346 Environmental Health and Disease
3 cr. Undergraduate.
Investigates how the environment and/or environmental factors impact human health and population health with an emphasis on the developmental origins of disease.
Prerequisites: Bio Sci 102(P) & PH 142(P).
Current Offerings: http://uwm.edu/schedule

PH 355 Public Health Research Methods I
3 cr. Undergraduate.
Introduction to public health qualitative and quantitative research methods and considerations for conducting ethical public health research.
Prerequisites: KIN 270(P) or MthStat 215(P); HCA 307(P).
Current Offerings: http://uwm.edu/schedule

PH 375 Topics in Public Health for Undergrads:
3 cr. Undergraduate.
Topics of current interest in Public Health for undergrads.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic.
Current Offerings: http://uwm.edu/schedule

PH 408 Comparative Health Systems: A Social Determinants Approach
3 cr. Undergraduate.
Building on a conceptual foundation and diverse examples, introduces the US and international healthcare systems, and their role in improving population health and health equity.
Prerequisites: jr st & POL SCI 103(P), 104(P), 175(P), or 210(P).
Current Offerings: http://uwm.edu/schedule

PH 410 True Lies: Consuming and Communicating Quantitative Information
3 cr. Undergraduate.
Develops quantitative critical thinking skills, from elementary statistics to causal inference and data visualization. Examines how data are used in health-related sciences and mass-media reports.
Prerequisites: Kin 270(P) or MthStat 215(P).
Current Offerings: http://uwm.edu/schedule
PH 427 Strategies for Action in Public Health
3 cr. Undergraduate.
In-depth study of assessment and planning methods, theory application, and interdisciplinary community-engaged approaches and strategies for taking action to promote population health and health equity.
Prerequisites: PH 327(P) & satisfaction of OWC-B.
Current Offerings: http://uwm.edu/schedule

PH 428 Program Implementation & Evaluation for a Healthy Society
3 cr. Undergraduate.
Introduces concepts and methods for developing strategies of implementation and evaluation of health programs. Fundamental knowledge and skills for implementing and evaluating health promotion programs.
Prerequisites: PH 427(P).
Current Offerings: http://uwm.edu/schedule

PH 455 Public Health Research Methods II
3 cr. Undergraduate.
Application of qualitative and quantitative methods, interpretation of findings, and communication of results in public health research.
Prerequisites: PH 355(P).
Current Offerings: http://uwm.edu/schedule

PH 467 History of Scientific Reasoning in Global Public Health and Epidemiology
3 cr. Undergraduate.
Introduction to the historical development of public health and epidemiology, and how historical and social contexts shape scientific theories of disease distribution and determinants.
Prerequisites: HCA 307(P).
Current Offerings: http://uwm.edu/schedule

PH 478 Public Health Research Using Social Media
3 cr. Undergraduate.
Hands-on research and discussion seminar in which students examine a selected issue tied to social media and public health.
Prerequisites: PH 455(P).
Current Offerings: http://uwm.edu/schedule

PH 699 Independent Study
1-3 cr. Undergraduate.
Independent study on a topic not available as a regular course.
Prerequisites: cons instr.
Last Taught: Spring 2016, Spring 2015, Fall 2012.
Current Offerings: http://uwm.edu/schedule

PH 700 Structures of Inequality and Population Health
3 cr. Graduate.
Foundations of public health, critical social theory, and social justice praxis, which provide essential interdisciplinary tools for analyzing sociostructural processes and advancing social and health equity.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PH 701 Public Health Principles and Practice
3 cr. Graduate.
Examination of fundamental principles designed to improve the health of the public, public health theories, domains, and practices.
Prerequisites: PH 327(P) & satisfaction of OWC-B.
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PH 702 Introduction to Biostatistics
3 cr. Graduate.
Development and application of statistical reasoning and methods in addressing, analyzing, and solving problems in public health. Includes lab section with introduction to SAS, including macros and core statistical analysis functions.
Prerequisites: grad st; Math 116 with B or better, or equivalent, or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PH 703 Environmental Health Sciences
3 cr. Graduate.
Survey of effects environment has on humans, and effects humans have on environment, emphasis on toxicology and infectious disease.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

PH 704 Principles and Methods of Epidemiology
3 cr. Graduate.
Quantitative study of patterns and determinants of health in human populations applying biomedical and social epidemiology perspectives. Problem-based lab includes surveillance, measurement, study design, and causal inference applications.
Prerequisites: grad st; PH 702(C) or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PH 705 Principles of Public Health Policy and Administration
3 cr. Graduate.
The role of policy in influencing population health, policies that promote public health, the policymaking process, and the planning and administration of health systems.
Prerequisites: grad st; PH 704(R)
Current Offerings: http://uwm.edu/schedule

PH 706 Perspectives on Community & Behavioral Health
3 cr. Graduate.
Philosophical underpinnings, conceptual frameworks, and strategies for the application of behavioral and social science concepts to the goals of public health. Prereq: grad st
Prerequisites: cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PH 707 Introduction to Statistical Computing
1 cr. Graduate.
Introduction to statistical methods as implemented in SAS, including macros and core statistical analysis functions.
Prerequisites: grad st; PH 702(C) or cons instr
Last Taught: Spring 2015, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule
PH 708 Health Systems and Population Health  
3 cr. Graduate.  
Using fundamental concepts of health systems design, international comparisons, and case studies, this course demonstrates strategies through which health systems could improve health and reduce inequities by addressing social vulnerabilities.  
Prerequisites: grad st  
Last Taught: Spring 2018.  
Current Offerings: http://uwm.edu/schedule

PH 709 Public Health Informatics  
3 cr. Graduate.  
Overview of the rapidly emerging and evolving field of public health informatics - active learning and exposure to new and relevant public health informatics methods, applications, and tools.  
Prerequisites: grad st  
Last Taught: Spring 2016.  
Current Offerings: http://uwm.edu/schedule

PH 711 Intermediate Biostatistics  
3 cr. Graduate.  
Introduction to modern multivariable statistical analysis, based on generalized linear models. Topics include linear regression, logistic regression, one-way and two-way ANOVA, longitudinal analysis, missing data, and mixed models.  
Prerequisites: grad st; PH 702(P) or cons instr  
Current Offerings: http://uwm.edu/schedule

PH 712 Probability and Statistical Inference  
3 cr. Graduate.  
Introductory graduate-level course that provides students with a mathematical treatment and understanding of key concepts in probability and distribution theory and statistical inference, and their applications in public health.  
Prerequisites: grad st; Math 231 (P) & 232 (P) or equivalent, or cons instr  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

PH 713 Analyzing Observational and Experimental Data  
3 cr. Graduate.  
Analyze data from both experiments and observational studies within a causal inference framework as it applies to public health. Covers randomization, confounding, blocking, ANOVA, counterfactuals, selection bias, and measurement error.  
Prerequisites: grad st; PH 704(C), PH 711 (C) or PH 759 (C) or cons instr  
Current Offerings: http://uwm.edu/schedule

PH 714 Statistical Genetics and Genetic Epidemiology  
3 cr. Graduate.  
Introduction to statistical methods for the analysis of family and population based genetic data, including methods can be used in linkage analysis, family-based and population-based association studies.  
Prerequisites: grad st; PH 702(P) and PH 711(P) or cons instr  
Last Taught: Fall 2015.  
Current Offerings: http://uwm.edu/schedule

PH 715 Applied Categorical Data  
3 cr. Graduate.  
Data analysis techniques for various kinds of categorical data for public health related examples using SAS.  
Prerequisites: grad st; PH 711(P) and PH 712(P) or cons instr  
Last Taught: Fall 2017, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

PH 716 Applied Survival Analysis  
3 cr. Graduate.  
This course covers basic concepts and techniques in the statistical analysis of survival data.  
Prerequisites: Grad St; PH711(P) (or PH759(P)) and PH712(P); or consent of instructor.  
Last Taught: Spring 2018.  
Current Offerings: http://uwm.edu/schedule

PH 717 Applied Longitudinal Data Analysis  
3 cr. Graduate.  
This course will cover data analysis techniques for longitudinal data with focus on application in public health with related examples using SAS.  
Prerequisites: PH 711 and PH 712; cons instr.  
Last Taught: Fall 2016, Spring 2016.  
Current Offerings: http://uwm.edu/schedule

PH 718 Data Management and Visualization in R  
3 cr. Graduate.  
This course covers basic concepts and techniques for statistical programming with the R computing language.  
Prerequisites: PH711; cons instr.  
Current Offerings: http://uwm.edu/schedule

PH 719 Social Justice in Public Health  
3 cr. Graduate.  
This course is designed to introduce you to the major social variables (e.g., socioeconomic status, race, poverty, social support, neighborhood environment) that affect public health.  
Prerequisites: grad st  
Current Offerings: http://uwm.edu/schedule

PH 720 Special Topics in Biostatistics:  
1-3 cr. Graduate.  
Survey of an area in Biostatistics. Specific credits and add'l prereqs announced in Schedule of Classes each time course is offered.  
Prerequisites: grad st  
Course Rules: Retakable w/chg in topic to 9 cr max.  
Last Taught: Fall 2017, Fall 2016, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

PH 721 Introduction to Translational Bioinformatics  
3 cr. Graduate.  
Review bioinformatics knowledge and analytical skills, high-throughput technologies that produce various omic data, along with the methodologies to analyze and interpret different layers of information.  
Prerequisites: grad st; PH 711(P) or cons instr  
Current Offerings: http://uwm.edu/schedule
PH 723 Design, Conduct and Analysis of Clinical Trials
3 cr. Graduate.
Introduction to the design, conduct and analysis of phase I-IV clinical trials, with an emphasis on phase III trials and ethical issues in clinical research.
Prerequisites: grad st; PH 711 (P), or cons instr
Current Offerings: http://uwm.edu/schedule

PH 725 Theories and Models of Health Behavior
3 cr. Graduate.
Examine theories of health behavior targeted to each level of the social ecological model, including historical and public health context. Assess utility of these theories in various domains.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

PH 726 Community Health Assessment
3 cr. Graduate.
Introduction to the concepts and techniques of community health assessment, conducting and critically analyzing community assessments.
Prerequisites: grad st; PH 701(P) or cons instr
Current Offerings: http://uwm.edu/schedule

PH 727 Program Planning & Implementation in Public Health
3 cr. Graduate.
Systematic approach to planning and implementing public health programs, examining program monitoring, methods of impact assessment, and measuring efficiency.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PH 728 Program Evaluation in Public Health
3 cr. Graduate.
Students design and present research and evaluation plans, receive guidance on developing conceptual frameworks and hypotheses, collecting and analyzing data, and developing program evaluation plans.
Prerequisites: grad st; PH 702(P) or cons inst
Current Offerings: http://uwm.edu/schedule

PH 729 Survey Research Methods in Public Health
3 cr. Graduate.
The application of survey methods with emphases on sampling, survey design and planning, and data collection procedures.
Prerequisites: grad st; PH 702(P) or cons inst
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PH 732 Youth Mental Health Practice for Non Mental Health Professionals
3 cr. Graduate.
Examination of mental health principles and practices from a public health professional’s perspective, including ethical guidelines, necessary interpersonal skills, and mental health screenings and referrals to services.
Prerequisites: grad st
Last Taught: Summer 2012.
Current Offerings: http://uwm.edu/schedule

PH 740 Special Topics in Public Health:
3 cr. Graduate.
Topics of current interest in public health.
Prerequisites: grad st.
Course Rules: May be repeated w/ chg in topic to 9 cr max.
Last Taught: Fall 2016, Spring 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

PH 741 Environmental Public Health Microbiology
3 cr. Graduate.
Environmental health microbiology is the study of microbial processes in water, land, and food that affect human health.
Prerequisites: grad st; completed minimum of one undergraduate microbiology course.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PH 743 Environmental Risk Assessment
3 cr. Graduate.
Risk assessment practices from an environmental health perspective, complexities and challenges of regulation, management, and mitigation of risks for both human and ecosystem health.
Prerequisites: grad st; PH 702(P) & PH 703 (P) or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PH 744 Environmental Toxicology
3 cr. Graduate.
This course will cover the occurrence, fate and transport, and toxic action of natural and synthetic chemicals encountered in the air, water, and soil.
Prerequisites: grad st; CHEM 100 (or equivalent) with B or better, and BIO SCI 150 (or equivalent) with B or better, or cons instr
Current Offerings: http://uwm.edu/schedule

PH 745 Developmental Toxicology
3 cr. Graduate.
An introduction to the field of developmental toxicology and how environmental contaminants influence vertebrate development, including humans.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PH 750 Seminar in Environmental Health Sciences
1-3 cr. Graduate.
Survey of an area in environmental health. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered. Retakable w/chg in topic to 9 cr max.
Prerequisites: May be repeated w/ chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PH 752 Public Health and Mental Health
3 cr. Graduate.
Understanding mental health and mental illness from a public health perspective; designed for an interdisciplinary audience of students, researchers and practitioners.
Prerequisites: grad st.
Last Taught: Fall 2017, Spring 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
PH 758 Social Epidemiology
3 cr. Graduate.
Foundations of social epidemiology, including key concepts, theoretical frameworks, and methods for studying social and structural determinants of population health and health inequity.
Prerequisites: grad st; PH 700(P), PH 702(P), and PH 704(P); or cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

PH 759 Intro to Regression for Understanding the SDOH
3 cr. Graduate.
Using STATA on real data to build regression models, perform diagnostics, and interpret results. Utilize social theory to put results into context.
Prerequisites: grad st; PH 700(P), PH 702(P), PH 704(P), or cons instr.
Current Offerings: http://uwm.edu/schedule

PH 761 Epidemiology Field Methods
3 cr. Graduate.
Prepares students to conduct epidemiologic field studies. Introduction of reviewing literature, designing questionnaires, developing surveillance systems, conducting emergency outbreak investigations, applying for IRB approval, and public relations.
Prerequisites: grad st; PH 700(P), 702(P), and PH 704 (P) or cons instr
Current Offerings: http://uwm.edu/schedule

PH 762 Environmental Epidemiology
3 cr. Graduate.
Expands upon basic epidemiological principles to tackle current problems in studies of health impacts of contaminants in air, water, food supply, consumer products, and indoor spaces, emphasizing a cross-disciplinary approach.
Prerequisites: grad st; PH 703(C) and PH 704(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

PH 763 Epidemiology for Equity
3 cr. Graduate.
Students will integrate epidemiology methods with the principles, methods, and skills of participatory action research aimed at structural change to promote social and/or environmental justice and health equity.
Prerequisites: grad st; PH 700(P), 702(P), PH 704(P), and PH 790 (C); or consent of instructor
Current Offerings: http://uwm.edu/schedule

PH 768 Cancer Epidemiology
3 cr. Graduate.
The course will provide an introduction to cancer epidemiology and prevention evaluating methods to study cancer etiology and survival with a particular focus on understanding cancer disparities.
Prerequisites: grad st; PH 702(P) and PH 704(P); or cons instr grad st; PH 702(P) and PH 704(P); or cons instr.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PH 769 Critical Perspectives on Nutritional Epidemiology and the Food System
3 cr. Graduate.
This course offers a synthesis of nutritional epidemiological methods and food systems perspectives to build students critical understanding of diets, nutrition, and their public health implications.
Prerequisites: grad st; PH702(P), PH704(P), and PH705(P); or consent of instructor
Current Offerings: http://uwm.edu/schedule

PH 771 Violence and Health
3 cr. Graduate.
This course examines relationships between violence and health from an interdisciplinary perspective in order to develop analytical, practical, and self-reflexive skills for intervening in violence and promoting health equity.
Prerequisites: grad st
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

PH 774 Violence and Health
2 cr. Graduate.
Molecular and cellular means by which microorganisms facilitate infection, withstand or evade immune response, induce damage to host, and ensure transmission to human populations.
Prerequisites: grad st; Ic & la course in medical microbiology
Course Rules: C L Sci 775 & PH 775 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2016, Spring 2014.
Current Offerings: http://uwm.edu/schedule

PH 775 Mechanisms of Infectious Disease
3 cr. Graduate.
Explores the molecular and cellular mechanisms by which microorganisms facilitate infection, evade immune response, induce damage to host, and ensure transmission to human populations.
Prerequisites: grad st; PH 700(P), 702(P), and PH 704 (P) or cons instr
Last Taught: Spring 2016, Spring 2015.
Current Offerings: http://uwm.edu/schedule

PH 776 Qualitative Approaches in Public Health Policy and Administration
3 cr. Graduate.
Introduces students to foundational approaches to qualitative research for use in public health policy & administration. It provides opportunities to practice foundational data collection, research analysis, reflexivity, & research design skills.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

PH 777 Quantitative Research Methods for PH Policy & Administration
3 cr. Graduate.
Introduces quantitative methods commonly used in public health policy and administration decision-making, skills to analyze quantitative research and to apply knowledge generated from research to the public health policy and administration context.
Prerequisites: grad st; PH 702(P) or cons instr
Current Offerings: http://uwm.edu/schedule

PH 779 Public Health Policymaking and Policy Analysis
3 cr. Graduate.
Introduces students to key frameworks for public health policymaking and policy analysis. Students apply concepts to a real world public health problem of their choice.
Prerequisites: grad st; PH705(P) or MSP760(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
PH 780 Seminar in Public Health Policy and Administration
1-3 cr. Graduate.
Survey of an area in Public Health Policy and Administration. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.
Prerequisites: grad st
Course Rules: Retakable w/chg in topic to 9 cr max.
Current Offerings: http://uwm.edu/schedule

PH 781 Public Health Administration
3 cr. Graduate.
This course introduces basic concepts, best-practice leadership, and management principles with the emphasis on organizational behavior in public health settings.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PH 784 Social and Economic Policy as Health Policy
3 cr. Graduate.
This course examines how social and economic policies, including education, income re-distribution, and housing shape population health. A broad overview of the social determinants of health is introduced/reviewed and current knowledge of the impact.
Prerequisites: grad st; a course covering multiple regression, including PH 711(P), PH 759(P), or cons inst.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

PH 785 Principles of Public Health Economics
3 cr. Graduate.
The course introduces the application of microeconomic theories and models to explain major topics and trends in public health and health care settings.
Prerequisites: grad st. or cons instr
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

PH 790 Field Experience in Public Health
1-6 cr. Graduate.
Apply skills learned in the classroom to real world public health problems in a mentored field placement, engaging both faculty and site preceptors.
Prerequisites: grad st; PH 701(P), PH 702(P), PH 703(P), PH 704(P), PH 705(P), PH 706(P), and PH 707(P) or cons inst
Current Offerings: http://uwm.edu/schedule

PH 800 Capstone in Public Health
2 cr. Graduate.
Application of acquired public health knowledge, experience and competencies in developing a public health project that demonstrates readiness for professional practice. Satisfactory/Unsatisfactory only.
Prerequisites: grad st; PH 790(P) or cons instr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

PH 801 Seminar in Public Health Research
3 cr. Graduate.
Immersion in interdisciplinary collaborative approaches to public health research.
Prerequisites: grad st; 1 course in stats/biostats and 1 course in research methods; or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

PH 804 Advanced Epidemiology
3 cr. Graduate.
Advanced training in epidemiological concepts, principles and methods in the context of population health and health equity.
Prerequisites: grad st; PH758, PH823, or cons instr
Last Taught: Spring 2017.
Current Offerings: http://uwm.edu/schedule

PH 808 Writing a Federal Grant in the Public Health Sciences
3 cr. Graduate.
This course is designed to provide students a hands-on experience with all aspects of preparation of a hypothesis driven grant application to a federal agency such as the NIH or NSF.
Prerequisites: grad st. admis to a PhD program.
Current Offerings: http://uwm.edu/schedule

PH 811 Causal Inference
3 cr. Graduate.
This course will cover a variety of approaches to define and estimate causal effects, as well as the sensitivity analysis for both clinical trial and observational studies.
Prerequisites: grad st; Mthstat 762(C) or PH 911 (C) or cons instr
Current Offerings: http://uwm.edu/schedule

PH 812 Statistical Learning & Data Mining
3 cr. Graduate.
Analysis of data using modern data mining technique.
Prerequisites: Grad st; MathStat 761 and PH 718; or consent of instructor
Current Offerings: http://uwm.edu/schedule

PH 813 Practice of Biostatistical Consulting
3 cr. Graduate.
This course teaches the elements of statistical consulting, appropriate statistical analysis approaches, and how to interpret findings and effectively communicate with clients.
Prerequisites: grad st; PH 711, PH 713, & PH 718; or cons instr.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

PH 818 Statistical Computing
3 cr. Graduate.
This course will cover the theory and application of common algorithms used in statistical computing.
Prerequisites: grad st; PH 711(P), MthStat 762(P), and PH 718(P) or cons inst.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule
PH 819 Social and Environmental Justice in Public Health  
3 cr. Graduate.  
Social and environmental justice perspective on public health problems and concerns.  
Prerequisites: grad st  
Course Rules: Jointly offered w/ & counts as a repeat of Soc Wrk 819.  
Last Taught: Spring 2014, Spring 2013, Fall 2010, Fall 2009.  
Current Offerings: http://uwm.edu/schedule

PH 820 Maternal and Child Health Foundations, Policy and Practice  
3 cr. Graduate.  
The foundations of MCH, historical context, financing, challenges, and opportunities in advancing MCH at state, national and international level including the integration of men.  
Prerequisites: grad st; PH 702(P), 704(P) or cons instr  
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2013.  
Current Offerings: http://uwm.edu/schedule

PH 823 Applied Analysis of Binary Outcomes in Public Health Research  
3 cr. Graduate.  
Apply principles of epidemiology, statistics, and study design in analyzing a public health dataset of choice, covering confounding, modification, bias, missing data, and interpretation in light of limitations.  
Prerequisites: PH702 (P), PH 704(P), and doctoral standing; or consent of instructor.  
Last Taught: Fall 2017.  
Current Offerings: http://uwm.edu/schedule

PH 825 Social and Behavioral Science in Public Health  
3 cr. Graduate.  
Overview of the contribution and use of social and behavioral sciences approaches in public health research, policy, planning/evaluation, practice, and interventions.  
Prerequisites: grad st  
Last Taught: Fall 2013, Fall 2012.  
Current Offerings: http://uwm.edu/schedule

PH 826 Principles of Community Intervention Research  
3 cr. Graduate.  
Seminar covering classics in community-based public health research and the development of conceptual and methodological skills in community engagement.  
Prerequisites: grad st.  
Course Rules: Counts a repeat of PH 740 with similar topic.  
Last Taught: Fall 2017, Fall 2015.  
Current Offerings: http://uwm.edu/schedule

PH 827 Research Design in Community and Behavioral Health Promotion  
3 cr. Graduate.  
Examination of experimental, quasi-experimental, and nonexperimental study designs, focus groups, and coding with qualitative software.  
Prerequisites: grad st; admis to doctoral prog. PH 801(P) & 702(P) or cons instr.  
Current Offerings: http://uwm.edu/schedule

PH 831 Community Engagement and Participatory Research Approaches in Public Health  
3 cr. Graduate.  
Effective approaches to engaging communities in health interventions and addressing health disparities.  
Prerequisites: grad st.  
Current Offerings: http://uwm.edu/schedule

PH 859 Racial/Ethnic Health Disparities in the United States  
3 cr. Graduate.  
The course will analyze studies of racial/ethnic health disparities, with a focus to include multi-level and temporal perspectives to better understand the social context in which the determinants of racial/ethnic health are embedded.  
Prerequisites: grad st; a course covering multiple regression, including PH 711(P), PH 759(P), or cons inst.  
Course Rules: Counts as repeat of PH 740 w/similar topic.  
Current Offerings: http://uwm.edu/schedule

PH 864 Research Ethics in Epidemiology and Public Health  
3 cr. Graduate.  
Training in research ethics and ethical analysis in the context of public health and epidemiology research. Covers all topics outlined in the NIHs Responsible Conduct of Research Training.  
Prerequisites: grad st; PH801, PH704, or cons instr  
Current Offerings: http://uwm.edu/schedule

PH 865 Critical Methodologies for Health Equity Research  
3 cr. Graduate.  
Analyzes interdisciplinary critical methodologies for researching health inequities across diverse axes of power and considers how to integrate these methodologies into epidemiologic and public health research to advance health equity.  
Prerequisites: grad st; PH 700(P), and PH 758(P) or PH 859(P), or cons instr  
Current Offerings: http://uwm.edu/schedule

PH 866 Epidemiologic Links Between Infectious and Chronic Disease  
3 cr. Graduate.  
Discussion of social patterning of infection, epidemiologic and physiologic links between infections and chronic disease, and methodological considerations in the evaluation of such associations.  
Prerequisites: grad st; PH702(P), PH704(P), and PH759(P) or PH711(P); or consent of instructor  
Last Taught: Spring 2018.  
Current Offerings: http://uwm.edu/schedule

PH 870 Epidemiology in Health Policy and Advocacy  
3 cr. Graduate.  
Using epidemiologic evidence to inform public health policy, through engagement with the policy process, communication with policymakers, and evidence-based appraisal of policy alternatives and advocacy for sound policy.  
Prerequisites: grad st; PH 779(P), PH804; or cons instr  
Current Offerings: http://uwm.edu/schedule
PH 904 Survey of Analytic Methods for Epidemiology
3 cr. Graduate.
Survey of advanced analytic approaches to the conduct of epidemiologic
research in the pursuit of causal inference.
Prerequisites: grad st, PH 804 or permission of instructor.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

PH 911 Generalized Linear Models
3 cr. Graduate.
This course will cover theory of advanced biostatistics models with
focus on generalized linear models and will also cover generalized
estimating equation, generalized linear mixed models. We will emphasize
implementation in R.
Prerequisites: grad st; PH 711(P), MthStat 762(P), and PH 718(P) or cons
instr.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

PH 919 Core Seminar in Community and Behavioral Health Promotion
1-3 cr. Graduate.
These seminars are intended as professional development to prepare
students for successful careers in the area of Community and Health
Behavior Promotion.
Prerequisites: Grad St
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

PH 960 Core Doctoral Seminar in Epidemiology
3 cr. Graduate.
This advanced doctoral seminar discusses practical aspects of an
epidemiology career, from developing a research question and study, to
managing a grant, writing results and reporting results to the press.
Prerequisites: grad st; PH 758 (P), PH 823 (P), PH 779 (P) and PH 801(P),
or cons instr
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

PH 990 Research and Dissertation
1-8 cr. Graduate.
Original research in any public health discipline
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

PH 999 Independent Study
1-3 cr. Graduate.
Independent study on a topic not available as a regular course, directed
by a member of the graduate faculty.
Prerequisites: grad st; cons instr.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Auer</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>Purdue University</td>
<td>✓</td>
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</tr>
<tr>
<td>Michael Carvan III</td>
<td>Professor (School of Freshwater Sciences)</td>
<td>PhD</td>
<td>Texas A&amp;M University</td>
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<tr>
<td>Young Cho</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Illinois at Chicago</td>
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<tr>
<td>Ron Cisler</td>
<td>Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Phuong (Phoenix) D. Do</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>The RAND Graduate School</td>
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<tr>
<td>Paul Florsheim</td>
<td>Professor</td>
<td>PhD</td>
<td>Northwestern University</td>
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<tr>
<td>Amy Harley</td>
<td>Associate Professor</td>
<td>PhD, MPH</td>
<td>Ohio State University</td>
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<tr>
<td>Chiang-Ching Spencer Huang</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
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<tr>
<td>Mustafa Hussein</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>The University of Tennessee</td>
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<tr>
<td>Amy Kalkbrenner</td>
<td>Associate Professor</td>
<td>PhD, MPH</td>
<td>University of North Carolina at Chapel Hill</td>
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<tr>
<td>Lori Klos</td>
<td>Associate Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>Cornell University</td>
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<tr>
<td>Linnea Laestadius</td>
<td>Assistant Professor</td>
<td>PhD, MPP</td>
<td>Johns Hopkins University</td>
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<tr>
<td>Michael Laiosa</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>State University of New York, Upstate</td>
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<tr>
<td>Hongbo Ma</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Medical University</td>
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<tr>
<td>Lorraine Halinka Malcoe</td>
<td>Associate Professor</td>
<td>PhD, MPH</td>
<td>University of Georgia</td>
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<tr>
<td>Sandra McLeffan</td>
<td>Professor (School of Freshwater Sciences)</td>
<td>PhD</td>
<td>University of California at Berkeley</td>
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<tr>
<td>Susan McRoy</td>
<td>Professor (College of Engineering and Applied Science)</td>
<td>PhD</td>
<td>University of Toronto</td>
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<tr>
<td>Name</td>
<td>Title</td>
<td>Degree(s)</td>
<td>University</td>
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<tr>
<td>Helen Meier</td>
<td>Assistant Professor</td>
<td>PhD, MPH</td>
<td>University of Michigan</td>
<td></td>
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<tr>
<td>Todd Miller</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Maryland</td>
<td></td>
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<tr>
<td>Emmanuel Ngui</td>
<td>Associate Professor</td>
<td>DrPh, MSc</td>
<td>University of North Carolina at Chapel Hill</td>
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</tr>
<tr>
<td>Aaron Schutz</td>
<td>Professor (School of Education)</td>
<td>PhD, MPP, MA</td>
<td>University of Michigan</td>
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</tr>
<tr>
<td>Scott Strath</td>
<td>Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>University of Tennessee</td>
<td></td>
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</tr>
<tr>
<td>Kurt Svoboda</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>S.U.N.Y at Stony Brook</td>
<td></td>
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</tr>
<tr>
<td>Geoffrey R. Swain</td>
<td>Adjunct Associate Professor (University of Wisconsin - Madison School of Medicine and Public Health)</td>
<td>MD, MPH</td>
<td>Medical College of Wisconsin</td>
<td></td>
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<tr>
<td>Ann Swartz</td>
<td>Professor (College of Health Sciences)</td>
<td>PhD</td>
<td>University of Tennessee</td>
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<tr>
<td>Peter Tonellato</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Arizona</td>
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<tr>
<td>Ellen Velie</td>
<td>Professor</td>
<td>PhD</td>
<td>University of California at Berkeley</td>
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<tr>
<td>Renee Walker</td>
<td>Associate Professor</td>
<td>DrPH, MPH</td>
<td>University of Pittsburgh</td>
<td></td>
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<tr>
<td>Yang Wang</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of Nebraska</td>
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<tr>
<td>Lance Weinhardt</td>
<td>Professor</td>
<td>PhD</td>
<td>Syracuse University</td>
<td></td>
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</tr>
<tr>
<td>Alice Yan</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Maryland</td>
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<tr>
<td>Cheng Zheng</td>
<td>Assistant Professor</td>
<td>PhD, MS</td>
<td>University of Washington</td>
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</tbody>
</table>

**Contact Information**

**Zilber School of Public Health**  
1240 N. 10th Street  
Milwaukee, WI 53205

**Phone:** (414) 227-3001

http://uwm.edu/publichealth/
ENVIRONMENTAL HEALTH SCIENCES, PHD

The program in Environmental Health Sciences offers graduate studies leading to the doctoral degree. Faculty for this program have a diverse expertise in the environmental health sciences spanning a broad range of research domains including developmental toxicology, environmental toxicology and chemistry, and environmental epidemiology. The EHS program through its faculty, offers students an unparalleled opportunity for cross-disciplinary training in pursuit of original and cutting-edge dissertation research projects. In addition, laboratories and equipment are available across campus to help facilitate innovative research endeavors relevant to environmental health science.

When applying for admission, students should describe their interest in the field and any research preferences. Applicants are encouraged to review the research interests of the faculty and contact those faculty who are of interest.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Applicants must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus the following program requirements to be considered for admission:

- A baccalaureate degree in a science discipline, including at least four laboratory courses and one statistics course.
- Submission of scores on the General Test portion of the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre); test taken within last five years.
- Submission of at least three letters of recommendation from persons familiar with the applicant’s scholarship, research achievements and potential.

For students entering with an advanced degree, credit may be given for relevant coursework at the discretion of the Admissions Committee.

Reapplication
A student who receives the Master of Public Health degree must formally reapply to the Zilber School of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

Credits and Courses

The PhD in Environmental Health Sciences requires 65 credits beyond the bachelor’s degree. In addition to the PhD Common Core Coursework, credits include required concentration coursework (17 credits), electives (at least 12 credits), and the remaining credits taken as research.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PH 801</td>
<td>Seminar in Public Health Research</td>
<td>12</td>
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<tr>
<td>PH 819</td>
<td>Social and Environmental Justice in Public Health</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PH 745</td>
<td>Developmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 556</td>
<td>Developmental Neurobiology</td>
<td>4</td>
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<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
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</tr>
<tr>
<td>IND ENG 780</td>
<td>Advanced Ergonomics - Low Back Pain</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 783</td>
<td>Advanced Ergonomics - Upper Extremity</td>
<td>3</td>
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</table>

### EHS Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
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</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td></td>
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<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
<td></td>
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<tr>
<td>PH 743</td>
<td>Environmental Risk Assessment</td>
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<tr>
<td>PH 750</td>
<td>Seminar in Environmental Health Sciences (Subtitled)</td>
<td></td>
</tr>
<tr>
<td>EOH 821</td>
<td>Advanced Survey of Environmental Health</td>
<td></td>
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<tr>
<td>EOH 822</td>
<td>Molecular &amp; Cellular Basis of Environmental Disease</td>
<td></td>
</tr>
<tr>
<td>PH 808</td>
<td>Writing a Federal Grant in the Public Health Sciences</td>
<td></td>
</tr>
</tbody>
</table>

| Electives (see table below) | 12 |
| Research                   | 24 |
| Total Credits              | 65 |

Electives are divided into three categories (molecular, organismal, and population/environment). It is recommended that the student take courses relevant to their research in consultation with the major professor. As the Zilber School’s programmatic offerings grow and diversity, additional PH courses may be approved by the EHS faculty for inclusion as potential elective options.

### Molecular Level Electives

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>PH 775</td>
<td>Mechanisms of Infectious Disease</td>
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</tr>
<tr>
<td>BIO SCI 529</td>
<td>Molecular Biology of Microorganisms</td>
<td>3</td>
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<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 564</td>
<td>Endocrinology</td>
<td>3</td>
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<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
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<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
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<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 604</td>
<td>Biochemistry: Metabolism</td>
<td>3</td>
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<tr>
<td>BMS 590</td>
<td>Topics in Clinical Laboratory Sciences: (Public Health Nutrition and Food Politics)</td>
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<tr>
<td>BMS 615</td>
<td>Cellular and Molecular Toxicology</td>
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### Organismal Level Electives

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 745</td>
<td>Developmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 556</td>
<td>Developmental Neurobiology</td>
<td>4</td>
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<tr>
<td>IND ENG 580</td>
<td>Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 780</td>
<td>Advanced Ergonomics - Low Back Pain</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 783</td>
<td>Advanced Ergonomics - Upper Extremity</td>
<td>3</td>
</tr>
</tbody>
</table>
Population Level Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 709</td>
<td>Public Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 721</td>
<td>Introduction to Translational Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 741</td>
<td>Environmental Public Health Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 762</td>
<td>Environmental Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 662</td>
<td>Land Use Planning for Urban Redevelopment</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 771</td>
<td>Transportation Policy and Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 791</td>
<td>Introduction to Urban Geographic Information Systems for Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 792</td>
<td>Using Urban Geographic Information Systems (GIS) for Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 794</td>
<td>Internet Geographic Information Systems (GIS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 506</td>
<td>Environmental Health of Freshwater Ecosystems</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 786</td>
<td>Applied Biostatistics in Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 880</td>
<td>Urban Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 945</td>
<td>The Internal Structure of the City</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor

As specified in Graduate School regulations, each student in the EHS PhD program must have a major professor to advise and supervise his or her studies. Upon admission, the student is assigned a temporary advisor; however, a permanent advisor must be selected during the spring of the first year of study. The major professor serves as the student's research mentor and will guide the student in course selection and research design. During the spring of the first year in the program, the student should form an academic advisory committee which is to consist of the student's advisor and two faculty members from within the Joseph J. Zilber School of Public Health.

Residence

The student must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence requirements cannot be met at the master's level.

PhD Advisory Committee

The student, in consultation with the Major Professor, will select four additional members to form a PhD Advisory Committee. A minimum of three committee members must be EHS program faculty. See the Graduate School Doctoral Requirements (http://uwm.edu/graduateschool/doctoral-requirements) page for more information on the doctoral committee.

Doctoral Qualifying Exam

During the end of the second semester of enrollment, the student is required to pass a brief qualifying exam. The duration of this exam is to be no longer than 90 minutes. The student will give an oral synopsis/self-evaluation of his/her first year in the program describing highlights from his/her coursework. The academic advisory committee will evaluate if the student has demonstrated a knowledge base in Public Health that was to be firmly established in the first year of coursework. The academic advisory committee in conjunction with the student will also map out the remaining coursework that needs to be completed by the end of the third year of the program. Students failing this important first exam will not be allowed to continue in the program and will forfeit their TAship, PAship, or RAship if applicable.

Doctoral Preliminary Examination

This examination must be taken no later than the end of the third year of study. In order to take the preliminary exam, all formal coursework must be completed with a cumulative GPA of 3.0 or higher. The preliminary examination consists of both written and oral components. The oral portion of the examination is broken into two subparts. The (proposal phase) will consist of the student presenting his/her dissertation proposal to the examining committee. In the "General Public Health Knowledge Phase" of the preliminary examination, the student will be evaluated (via oral questioning) by the academic advisory /doctoral advisory committee to determine if the student has truly acquired Public Health competencies which should have been acquired by completion of the formal coursework in the EHS PhD program. A student who fails the doctoral preliminary examination will be dismissed from the program.

Dissertator Status

Specific requirements which must be completed before a doctoral student qualifies for dissertator status are described on the Graduate School Doctoral Requirements page.

Dissertation

Doctoral students should be aware that the research component is extremely important and requires significant time allocation. A full-time commitment is required to complete this critical component of the degree. Successful doctoral students in our EHS program should anticipate working long hours, including on weekends, winter intersession and summer months. Students are also expected to enroll in, and successfully complete research credit. Six or more of these research credits must be obtained at the level of dissertator.

All successful doctoral students must prepare and successfully defend a dissertation reporting the results of their research. A full time student who does not pass the dissertation defense within six years of admission may be required to take another preliminary examination and be readmitted to the program.

Time Limit

The student must complete all requirements for the degree within 10 years of the date of initial enrollment in the program.
EPIDEMIOLOGY, PHD

The PhD program in epidemiology prepares graduates for many career paths, including academia, non-governmental organizations, and public service at all levels of local, national, and international government.

Through rigorous theoretical and methodological training, students learn to conduct independent research that examines the distribution and determinants of health, and to translate their findings to public health policy and strategies to promote population health. The program encourages applicants from diverse backgrounds, with a clearly communicated interest in epidemiology and in promoting health equity.

This program also meets requirements outlined by the national Council on Education for Public Health (CEPH).

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Applicants must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. Submission of scores from the Graduate Record Examination (GRE), taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.
2. Three letters of recommendation are required. At least one letter must be from a university faculty member.

Recommended:

- Applicants should have an earned bachelor’s degree in any field with a cumulative undergraduate GPA of 3.0 or higher.
- A completed Master’s degree in Epidemiology, public health or the social sciences is encouraged, but not required.
- At least one undergraduate mathematics or statistics course and one biological sciences course with a 3.0 is preferred.

Reapplication
A student who receives the Master of Public Health degree must formally reapply to the Zilber School of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

Credits and Courses

The curriculum consists of 75 credits to degree completion beyond the bachelor’s degree – 66 credits of didactic coursework and 9 credits toward dissertation writing and research. Students will take 24 credits of coursework to introduce them to the principles of Epidemiology, Biostatistics, public health policy and community engagement. They will take 6 credits of ‘selective’ coursework in subject matter areas, 6 credits of coursework in more advanced analytic methods, and 3 credits of an elective in an area that aligns with their research interests. They will also take 9 credits of advanced coursework in both theoretical and applied epidemiology, in addition to 6 credits in more advanced policy analysis and translation of epidemiologic findings to policy-interventions.

Additionally, students will take 12 credits of PhD-level coursework in research ethics, community-engagement, and a seminar in current issues in epidemiology. Students may apply previous graduate course work towards didactic credits, contingent on assessment of course equivalencies, in accordance with UW-Milwaukee policies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 700</td>
<td>Structures of Inequality and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PH 758</td>
<td>Social Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 759</td>
<td>Intro to Regression for Understanding the SDOH</td>
<td>3</td>
</tr>
<tr>
<td>PH 761</td>
<td>Epidemiology Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>PH 763</td>
<td>Epidemiology for Equity</td>
<td>3</td>
</tr>
<tr>
<td>PH 779</td>
<td>Public Health Policymaking and Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PH 801</td>
<td>Seminar in Public Health Research</td>
<td>3</td>
</tr>
<tr>
<td>PH 804</td>
<td>Advanced Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 819</td>
<td>Social and Environmental Justice in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 823</td>
<td>Applied Analysis of Binary Outcomes in Public Health Research</td>
<td>3</td>
</tr>
<tr>
<td>PH 864</td>
<td>Research Ethics in Epidemiology and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 870</td>
<td>Epidemiology in Health Policy and Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>PH 904</td>
<td>Survey of Analytic Methods for Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 960</td>
<td>Core Doctoral Seminar in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Required Epidemiology Subject Matter “S” Elective
Select two courses from the following:

- PH 768 Cancer Epidemiology
- PH 769 Critical Perspectives on Nutritional Epidemiology and the Food System
- PH 762 Environmental Epidemiology
- PH 868 Epidemiologic Links Between Infectious and Chronic Disease
- PH 865 Critical Methodologies for Health Equity Research

Analytic Methods Electives
Select two courses from the following; other classes as approved:

- PH 712 Probability and Statistical Inference
- PH 714 Statistical Genetics and Genetic Epidemiology
- PH 715 Applied Categorical Data
- PH 716 Applied Survival Analysis
- PH 717 Applied Longitudinal Data Analysis
- PH 718 Data Management and Visualization in R
Preliminary Examination Committee will select the research articles and create the exam. The questions will assess several PhD program competencies and will require students to integrate content related to 1) epidemiologic concepts and methods, 2) data analysis methods and applications to epidemiologic research, 3) applications of theory, social and environmental justice, health equity, and community engagement to epidemiologic research, and 4) policy implications of epidemiologic research. The examining committee will grade the exam and assign either a pass, conditional pass, or fail. For a conditional pass, the examining committee will determine options for remediation including but not limited to an oral presentation or re-write of certain questions. At the discretion of the examining committee, a student who fails the preliminary exam may be allowed one additional attempt with all or part of the examination.

Dissertation Proposal
The student, in consultation with the Major Professor, will select members to form a PhD Advisory Committee. See the Zilber School of Public Health Graduate Student Handbook and the Graduate School Doctoral Requirements page for more information on the doctoral committee. The dissertation research plan should include an abstract, background, outline of specific aims and hypotheses, (articulated as three distinct but related research questions), preliminary findings (if applicable), research methods proposed, public health significance of the proposed research and references. The composition of the dissertation committee must be in compliance with the rules and regulations of the Graduate School. The candidate then submits a written dissertation plan to be reviewed and formally approved by the dissertation advisory committee. The research plan must clearly outline the student's obligation for completing an original piece of work of sufficient quality, as determined by the committee. The review and approval process for the dissertation research plan will include a formal presentation to the committee.

Dissertation Defense
Upon approval of the dissertation proposal, students will proceed with an original and significant research investigation under the supervision of their major professor, culminating in a written dissertation.

The dissertation must, as the final step toward the degree, pass an oral examination in defense of the dissertation. The dissertation defense will be publicly announced and open to the academic community. Once the defense is completed, students will be encouraged to revise their dissertation and submit it for publication.

Once the committee has formally approved the dissertation document and the oral defense, and the Chair of the appropriate program has certified completion of all requirements, the candidate is awarded the Ph.D. in Public Health.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.
INTERPROFESSIONAL GRADUATE CERTIFICATE IN PUBLIC AND POPULATION HEALTH (ZILBER SCHOOL OF PUBLIC HEALTH)

The Interprofessional Graduate Certificate in Public and Population Health is designed for students and working professionals involved in program planning and implementation, evaluation, education policy, health policy, engineering administration, research, and other areas related to public and population health. It recognizes that an interdisciplinary, systems approach is essential for communities to solve complicated social and economic problems. No one perspective or set of strategies can address the many dimensions of current societal problems. Prevention and population health are important cornerstones of the solutions to these problems, requiring linkages and new models of interaction among primary care, hospitals, communities and public health.

The Interprofessional Graduate Certificate is a 16-credit program with courses in four core disciplines: epidemiology, health policy, social and behavioral health, and environmental health. The fifth course grounds students in public health principles and practice. The sixth course will provide students the opportunity to engage in interprofessional workshops and other learning forums to foster competencies in interprofessional values, communication and teamwork. Three of the courses, in health behavior, epidemiology and health policy, are offered online, which will provide added flexibility for students.

This program is open to post-baccalaureate students, to those currently enrolled in a UWM graduate degree program, as well as to health professionals who have completed a baccalaureate, master’s or doctoral degree. The certificate program is a collaborative program between the College of Health Sciences, College of Nursing, and the Zilber School of Public Health, and is coordinated through the Zilber School of Public Health with administrative support from the College of Nursing.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses

The completion of 16 credit hours is required for the certificate program. All students are required to complete six courses (All are 3 credits unless noted):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
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</tr>
<tr>
<td>NURS 727</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 556</td>
<td>Multilevel Approaches to Changing Physical Activity and Eating Behaviors or KIN 732 Physical Activity and Health Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PRPP 703</td>
<td>Foundations of Interprofessional Practice</td>
<td>1</td>
</tr>
<tr>
<td>NURS 803</td>
<td>Health Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

Students will need to maintain a 3.0 GPA and meet all other standard requirements for UWM graduate students for continuation in the program.

Certificate Requirements

Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
PUBLIC HEALTH MPH: BIOSTATISTICS

The Biostatistics track builds on the classic Public Health Biostatistics skill and knowledge base and takes advantage of special knowledge of its faculty in the areas of genetics, bioinformatics, network analysis, causal inference, and big data science. Students have the opportunity to learn and apply statistical genetics in the context of complex disease study, high throughout computing used in "big" data science, applications in evidence-based patient-centered outcome studies, and population-based epidemiological studies. Courses include topics and material such as interpretation of personalized and evidence-based medicine in the context of public health; basic understanding of genetics and epigenetics; general "omic" approaches and concepts; as well as classic Biostatistics topics such as Survival and Categorical data analysis.

Related Certificate

The Zilber School of Public Health (SPH) offers a Master of Public Health (MPH), a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

Master of Public Health

The Master of Public Health offered by the Zilber SPH is a professional master's degree program with five distinct tracks of study. The MPH program provides students with a broad understanding of public health practice and allows specialization in Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration.

Like most MPH programs, the Zilber SPH's program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber SPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/ informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the five areas. Upon graduation students are prepared for positions in a range of population health settings and/or for doctoral-level study.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission

An applicant must meet Graduate School requirements plus as the desired track of study requires: the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant's academic experience and potential for graduate work in public health.
2. CV or resume.
3. Score report from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre), taken within the last five years.
4. The admissions committee may consider GMAT (http://uwm.edu/graduateschool/admission/#gmat), LSAT, MCAT scores in place of GRE (http://uwm.edu/graduateschool/admission/#gre) scores. Students requesting this or any other exception should apply in writing for consideration by the Applications Review Committee.
5. Address the following two Short Essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
   - Describe how your professional, volunteer, and educational background has led you to seek a degree in Public Health.
   - How will your desired track of study help you reach your personal and professional goals in Public Health?
6. International applicants must also meet admission standards set and monitored by UWM's Center for International Education.
7. MPH applicants must use SOPHAS (https://sophas.org) to apply. When applying applicants must select their track of which they are applying; Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy & Administration.
8. Tracks may have additional admission requirements, which can be found here (http://uwm.edu/publichealth/faqs).

Credits and Courses

All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24 credit hours, including at least a four-credit Field Experience and a two-credit capstone seminar. In addition to the common core, students complete the required coursework in one of five specialization tracks: Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration. The MPH degree varies from 46-48 credits depending on the track. Students must maintain a cumulative G.P.A. of 3.0 or better in order to progress through the program.

Unless noted, all courses are 3 credits.

MPH Required Common Core Courses (at least 24 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Administration</td>
<td></td>
</tr>
</tbody>
</table>
Field Experience

The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and school staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. The experience is a mentored placement engaging both a Faculty Advisor and a Site Preceptor.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be foundational competencies (see Field Experience Handbook), and two of which are identified from the track competency sets. One foundational competency is required of all students:

- 19. Communicate audience-appropriate public health content, both in writing and through oral presentation

Students complete at least two products as agreed upon with the Site Preceptor.

In addition to the three credits/240 hours with an organization, students complete a one-credit module as part of the Field Experience designed to integrate competencies in leadership, negotiation, and interprofessional teamwork. The required competencies are:

- CEPH 16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
- CEPH 17. Apply negotiation and mediation skills to address organizational or community challenges.
- CEPH 21. Perform effectively on interprofessional teams.

Students fulfill these competencies through a series of activities including forums, workshops, case studies, an 8-week course, or specific projects at the organization. Students from at least two professions constitute an interprofessional team. Assessments for the leadership, negotiation and interprofessional team competencies may be presentations in a forum, written reflections, or other written and/or oral exercises.

All four credits may be taken in one semester, or spread out over two semesters.

**Capstone**

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student’s interests and career goals. Students then implement the project during their final semester of the program. The project has both a written paper and oral presentation component, in addition to attending a weekly seminar. The capstone project is an opportunity for students to demonstrate public health competencies.

**Biostatistics Concentration**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 710</td>
<td>Seminar in Biostatistics and Bioinformatics (approval pending)</td>
<td>13</td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td></td>
</tr>
<tr>
<td>PH 712</td>
<td>Probability and Statistical Inference</td>
<td></td>
</tr>
<tr>
<td>PH 713</td>
<td>Analyzing Observational and Experimental Data</td>
<td></td>
</tr>
<tr>
<td>PH 718</td>
<td>Data Management and Visualization in R</td>
<td></td>
</tr>
<tr>
<td>PH 707</td>
<td>Introduction to Statistical Computing</td>
<td></td>
</tr>
<tr>
<td>PH 709</td>
<td>Public Health Informatics</td>
<td></td>
</tr>
<tr>
<td>PH 714</td>
<td>Statistical Genetics and Genetic Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PH 715</td>
<td>Applied Categorical Data</td>
<td></td>
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<tr>
<td>PH 716</td>
<td>Applied Survival Analysis</td>
<td></td>
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<tr>
<td>PH 717</td>
<td>Applied Longitudinal Data Analysis</td>
<td></td>
</tr>
<tr>
<td>PH 720</td>
<td>Special Topics in Biostatistics: Bioinformatics</td>
<td></td>
</tr>
<tr>
<td>PH 721</td>
<td>Introduction to Translational Bioinformatics</td>
<td></td>
</tr>
<tr>
<td>PH 723</td>
<td>Design, Conduct and Analysis of Clinical Trials</td>
<td></td>
</tr>
</tbody>
</table>

**Program Requirements**

**Faculty Advisor**

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student.

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Administrative offices of the Zilber School of Public Health have staff assigned on policies and procedures for admission, academic progression, and graduation. If deemed necessary, any student can petition to the Zilber SPH's Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the program.

**Thesis**
Not required. See capstone for similar culminating experience.

**Comprehensive Examination**
Not required. See capstone for similar culminating experience.

**Time Limit**
The student must complete all degree requirements within five years of initial enrollment.
PUBLIC HEALTH MPH: COMMUNITY AND BEHAVIORAL HEALTH PROMOTION

The Community and Behavioral Health Promotion (CBHP) track focuses on promoting the health of communities through innovative approaches to community engagement and collaborative practice. Coursework addresses theories and frameworks in social and behavioral science, evidence-based methods for program planning (including assessment) and implementation, and program evaluation. Students apply a social justice and equity-centered approach to public health training and practice. Methodological approaches address quantitative, qualitative, and community-engaged techniques.

Related Certificate

- Interprofessional Graduate Certificate in Public and Population Health

The Zilber School of Public Health (SPH) offers a Master of Public Health (MPH), a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

Master of Public Health

The Master of Public Health offered by the Zilber SPH is a professional master's degree program with five distinct tracks of study. The MPH program provides students with a broad understanding of public health practice and allows specialization in Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration.

Like most MPH programs, the Zilber SPH's program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber SPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the five areas. Upon graduation students are prepared for positions in a range of population health settings and/or for doctoral-level study.

Application Deadlines

If at any time you are unsure about a published date or deadline, call the Registrar’s Office at (414) 229-3800 or submit a contact form online.

Admission Requirements

Admission

An applicant must meet Graduate School requirements plus the desired track of study requires: the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant’s academic experience and potential for graduate work in public health.
2. CV or resume.
3. Score report from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre), taken within the last five years.
4. The admissions committee may consider GMAT (http://uwm.edu/graduateschool/admission/#gmat), LSAT, MCAT scores in place of GRE (http://uwm.edu/graduateschool/admission/#gre) scores. Students requesting this or any other exception should apply in writing for consideration by the Applications Review Committee.
5. Address the following two Short Essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
   - Describe how your professional, volunteer, and educational background has led you to seek a degree in Public Health.
   - How will your desired track of study help you reach your personal and professional goals in Public Health?
6. International applicants must also meet admission standards set and monitored by UWM's Center for International Education.
7. MPH applicants must use SOPHAS (https://sophas.org) to apply. When applying applicants must select their track of which they are applying; Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy & Administration.
8. Tracks may have additional admission requirements, which can be found here (http://uwm.edu/publichealth/faqs).

Credits and Courses

All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24 credit hours, including at least a four-credit Field Experience and a two-credit capstone seminar. In addition to the common core, students complete the required coursework in one of five specialization tracks: Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration. The MPH degree varies from 46-48 credits depending on the track. Students must maintain a cumulative G.P.A. of 3.0 or better in order to progress through the program.

Unless noted, all courses are 3 credits.

MPH Required Common Core Courses (at least 24 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
</tbody>
</table>
All four credits may be taken in one semester, or spread out over two semesters.

**Capstone**

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student’s interests and career goals. Students then implement the project during their final semester of the program. The project has both a written paper and oral presentation component, in addition to attending a weekly seminar. The capstone project is an opportunity for students to demonstrate public health competencies.

### Community and Behavioral Health Promotion

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 701</td>
<td>Public Health Principles and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PH 725</td>
<td>Theories and Models of Health Behavior</td>
<td></td>
</tr>
<tr>
<td>PH 726</td>
<td>Community Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>PH 727</td>
<td>Program Planning &amp; Implementation in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 728</td>
<td>Program Evaluation in Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Methods “S”Electives

Select a minimum of 6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 729</td>
<td>Survey Research Methods in Public Health</td>
</tr>
<tr>
<td>PH 776</td>
<td>Qualitative Approaches in Public Health Policy and Administration</td>
</tr>
<tr>
<td>PH 831</td>
<td>Community Engagement and Participatory Research Approaches in Public Health</td>
</tr>
</tbody>
</table>

#### Electives

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 719</td>
<td>Social Justice in Public Health</td>
</tr>
<tr>
<td>PH 740</td>
<td>Special Topics in Public Health</td>
</tr>
<tr>
<td>PH 752</td>
<td>Public Health and Mental Health</td>
</tr>
<tr>
<td>PH 999</td>
<td>Independent Study</td>
</tr>
<tr>
<td>KIN 732</td>
<td>Physical Activity and Health Across the Lifespan</td>
</tr>
</tbody>
</table>

Other classes as approved by advisor

**Total Credits**: 24

### Program Requirements

#### Faculty Advisor

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student meeting and 2) a letter in May signed by their faculty advisor and program director confirming progress and noting any guidance for subsequent years, including plans and timetable for remediation when necessary.

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PUBLIC HEALTH MPH: ENVIRONMENTAL HEALTH SCIENCES

Environmental Health Sciences MPH students learn the biological, chemical, and structural components of public health and how to put current research into practice. Students’ experiences incorporate environmental health theories with cross-cutting public health competencies such as communication, public health biology, systems-thinking and leadership.

Faculty for this program are drawn from a number of departments and research units at UWM, affording the student an unparalleled opportunity for cross-disciplinary training and the performance of novel research projects. Laboratories and equipment are available across campus to promote innovative concepts in issues of Environmental Health Sciences.

Related Certificate


The Zilber School of Public Health (SPH) offers a Master of Public Health (MPH), a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

Master of Public Health

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Like most MPH programs, the Zilber SPH’s program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber SPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/ informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the five areas. Upon graduation students are prepared for positions in a range of population health settings and/or for doctoral-level study.

Admission Requirements

Application Deadlines

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Admission

An applicant must meet Graduate School requirements plus as the desired track of study requires: the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant’s academic experience and potential for graduate work in public health.
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Credits and Courses

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The required competencies are:

- Communicate audience-appropriate public health content, both in writing and through oral presentation

Students complete at least two products as agreed upon with the Site Preceptor.

In addition to the three credits/240 hours with an organization, students complete a one-credit module as part of the Field Experience designed to integrate competencies in leadership, negotiation, and interprofessional teamwork. The required competencies are:

- CEPH 16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
- CEPH 17. Apply negotiation and mediation skills to address organizational or community challenges.
- CEPH 21. Perform effectively on interprofessional teams.

Students fulfill these competencies through a series of activities including forums, workshops, case studies, an 8-week course, or specific projects at the organization. Students from at least two professions constitute an interprofessional team. Assessments for the leadership, negotiation and interprofessional team competencies may be presentations in a forum, written reflections, or other written and/or oral exercises.

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Program Requirements

Faculty Advisor
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Thesis
Not required. See capstone for similar culminating experience.

Comprehensive Examination
Not required. See capstone for similar culminating experience.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.
PUBLIC HEALTH MPH: EPIDEMIOLOGY

The Epidemiology track emphasizes the application of epidemiologic theory and methods for promoting social justice and health equity. The integrated multidisciplinary curriculum bridges theory, research, and practice to prepare students to engage in rigorous, collaborative, evidence-informed and reflexive public health practice. Through both didactic and experiential learning, students acquire foundations of applied epidemiological methods, epidemiologic data analysis, theories of social inequality, social epidemiology, and community partnership building. Graduates are able to collect, analyze, and interpret epidemiological information, generate theory-driven hypotheses and research questions, and work in true collaboration with diverse community partners to create social change to improve the public’s health and reduce health inequities.

Related Certificate


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   b. How will your desired track of study help you reach your personal and professional goals in Public Health?
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<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
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</tbody>
</table>
PH 706 Perspectives on Community & Behavioral Health 3
PH 708 Health Systems and Population Health 3
PH 790 Field Experience in Public Health (See following section for details) 1 4
PH 800 Capstone in Public Health (See following section for details) 2 2

Total Credits 24

1 Satisfactory/Unsatisfactory; may be taken for 1, 2, 3, or 4 credits in a given semester.
2 Completed in the final year of study.

Field Experience
The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and school staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. The experience is a mentored placement engaging both a Faculty Advisor and a Site Preceptor.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be foundational competencies (see Field Experience Handbook), and two of which are identified from the track competency sets. One foundational competency is required of all students:

- 19. Communicate audience-appropriate public health content, both in writing and through oral presentation

Students complete at least two products as agreed upon with the Site Preceptor.

In addition to the three credits/240 hours with an organization, students complete a one-credit module as part of the Field Experience designed to integrate competencies in leadership, negotiation, and interprofessional teamwork. The required competencies are:

- CEPH 16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
- CEPH 17. Apply negotiation and mediation skills to address organizational or community challenges.
- CEPH 21. Perform effectively on interprofessional teams.

Students fulfill these competencies through a series of activities including forums, workshops, case studies, an 8-week course, or specific projects at the organization. Students from at least two professions constitute an interprofessional team. Assessments for the leadership, negotiation and interprofessional team competencies may be presentations in a forum, written reflections, or other written and/or oral exercises.

All four credits may be taken in one semester, or spread out over two semesters.

Capstone
The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student’s interests and career goals. Students then implement the project during their final semester of the program. The project has both a written paper and oral presentation component, in addition to attending a weekly seminar. The capstone project is an opportunity for students to demonstrate public health competencies.

Epidemiology Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PH 700</td>
<td>Structures of Inequality and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 758</td>
<td>Social Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 759</td>
<td>Intro to Regression for Understanding the SDOH</td>
<td>3</td>
</tr>
<tr>
<td>PH 761</td>
<td>Epidemiology Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>PH 763</td>
<td>Epidemiology for Equity</td>
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</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Code “S Electives</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 762</td>
<td>Environmental Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 768</td>
<td>Cancer Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 769</td>
<td>Critical Perspectives on Nutritional Epidemiology and the Food System</td>
<td>3</td>
</tr>
</tbody>
</table>

Other classes as approved by advisor

<table>
<thead>
<tr>
<th>Electives</th>
<th></th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 713</td>
<td>Analyzing Observational and Experimental Data</td>
<td>3</td>
</tr>
<tr>
<td>PH 714</td>
<td>Statistical Genetics and Genetic Epidemiology</td>
<td>3</td>
</tr>
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<td>PH 715</td>
<td>Applied Categorical Data</td>
<td>3</td>
</tr>
<tr>
<td>PH 716</td>
<td>Applied Survival Analysis</td>
<td>3</td>
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<td>PH 717</td>
<td>Applied Longitudinal Data Analysis</td>
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</tr>
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<td>PH 728</td>
<td>Program Evaluation in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 729</td>
<td>Survey Research Methods in Public Health (not both)</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 752</td>
<td>Fundamentals of Survey Methodology</td>
<td>3</td>
</tr>
<tr>
<td>PH 784</td>
<td>Social and Economic Policy</td>
<td>3</td>
</tr>
<tr>
<td>PH 868</td>
<td>Epidemiologic Links Between Infectious and Chronic Disease</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>URBPLAN 692</td>
<td>Special Topics in Urban Planning: (Data Analysis and Visualization)</td>
<td>3</td>
</tr>
</tbody>
</table>

Other classes as approved by advisor

Total Credits 24
Program Requirements

Faculty Advisor
Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student.

UWM’s Zilber School recognizes the importance of a strong faculty advising program coupled with a sound system for monitoring student progress in all programs. Each semester, students are asked to assess their own progress through a required survey. They also complete a progress form together with their advisor. Feedback to students will be provided by 1) their faculty advisor in December during their advisor-student meeting and 2) a letter in May signed by their faculty advisor and program director confirming progress and noting any guidance for subsequent years, including plans and timetable for remediation when necessary.

Administrative offices of the Zilber School of Public Health have staff assigned on policies and procedures for admission, academic progression, and graduation. If deemed necessary, any student can petition to the Zilber SPH’s Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the program.

Thesis
Not required. See capstone for similar culminating experience.

Comprehensive Examination
Not required. See capstone for similar culminating experience.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.
PUBLIC HEALTH MPH: PUBLIC HEALTH POLICY AND ADMINISTRATION

Public health policy includes local, state, and federal policies that directly or indirectly impact the level and distribution of health in the population. At the Zilber School, we take a broad inter-sectoral view that includes a “Health in All Policies” approach. This framework recognizes that the level and distribution of health and wellbeing in the population are fundamentally shaped by public policies that create the social and economic conditions that underlie population health and health equity.

What makes our program distinct?
The Public Health Policy & Administration (PHPA) track is nationally distinct in its inter-sectoral, systems-level, and justice focused curriculum. Emphasizing the social, political, and economic determinants of health, students in the PHPA track gain foundational understanding of social and policy theories, and their relevance to public health practice and policymaking in various contexts.

The PHPA track also uniquely trains students in both quantitative, econometric policy analysis and qualitative research methods, with application to real-world public health policy problems.

Related Certificate

The Zilber School of Public Health (SPH) offers a Master of Public Health (MPH), a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

Master of Public Health
The Master of Public Health offered by the Zilber SPH is a professional master’s degree program with five distinct tracks of study. The MPH program provides students with a broad understanding of public health practice and allows specialization in Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration.

Like most MPH programs, the Zilber SPH's program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber SPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the five areas. Upon graduation students are prepared for positions in a range of population health settings and/or for doctoral-level study.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus as the desired track of study requires: the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant’s academic experience and potential for graduate work in public health.
2. CV or resume.
3. Score report from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre), taken within the last five years.
4. The admissions committee may consider GMAT (http://uwm.edu/graduateschool/admission/#gmat), LSAT, MCAT scores in place of GRE (http://uwm.edu/graduateschool/admission/#gre) scores. Students requesting this or any other exception should apply in writing for consideration by the Applications Review Committee.
5. Address the following two Short Essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
   - Describe how your professional, volunteer, and educational background has led you to seek a degree in Public Health.
   - How will your desired track of study help you reach your personal and professional goals in Public Health?
6. International applicants must also meet admission standards set and monitored by UWM's Center for International Education.
7. MPH applicants must use SOPHAS (https://sophas.org) to apply. When applying applicants must select their track of which they are applying; Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy & Administration.
8. Tracks may have additional admission requirements, which can be found here (http://uwm.edu/publichealth/faqs).

Credits and Courses
All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24 credit hours, including at least a four-credit Field Experience and a two-credit capstone seminar. In addition to the common core, students complete the required coursework in one of five specialization tracks: Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration. The MPH degree varies from 46-48 credits depending on the track. Students must maintain a cumulative G.P.A. of 3.0 or better in order to progress through the program.

Unless noted, all courses are 3 credits.
MPH Required Common Core Courses (at least 24 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PH 706</td>
<td>Perspectives on Community &amp; Behavioral Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 708</td>
<td>Health Systems and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 790</td>
<td>Field Experience in Public Health (See following section for details)</td>
<td>4</td>
</tr>
<tr>
<td>PH 800</td>
<td>Capstone in Public Health (See following section for details)</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 24

1 Satisfactory/Unsatisfactory; may be taken for 1, 2, 3, or 4 credits in a given semester.
2 Completed in the final year of study.

Field Experience

The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and school staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. The experience is a mentored placement engaging both a Faculty Advisor and a Site Preceptor.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be foundational competencies (see Field Experience Handbook), and two of which are identified from the track competency sets. One foundational competency is required of all students:

- 19. Communicate audience-appropriate public health content, both in writing and through oral presentation

Students complete at least two products as agreed upon with the Site Preceptor.

In addition to the three credits/240 hours with an organization, students complete a one-credit module as part of the Field Experience designed to integrate competencies in leadership, negotiation, and interprofessional teamwork. The required competencies are:

- CEPH 16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
- CEPH 17. Apply negotiation and mediation skills to address organizational or community challenges.
- CEPH 21. Perform effectively on interprofessional teams.

Students fulfill these competencies through a series of activities including forums, workshops, case studies, an 8-week course, or specific projects at the organization. Students from at least two professions constitute an interprofessional team. Assessments for the leadership, negotiation and interprofessional team competencies may be presentations in a forum, written reflections, or other written and/or oral exercises.

All four credits may be taken in one semester, or spread out over two semesters.

Capstone

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student’s interests and career goals. Students then implement the project during their final semester of the program. The project has both a written paper and oral presentation component, in addition to attending a weekly seminar. The capstone project is an opportunity for students to demonstrate public health competencies.

Public Health Policy and Administration Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 700</td>
<td>Structures of Inequality and Population Health</td>
<td>18</td>
</tr>
<tr>
<td>PH 776</td>
<td>Qualitative Approaches in Public Health Policy and Administration</td>
<td></td>
</tr>
<tr>
<td>PH 759</td>
<td>Intro to Regression for Understanding the SDOH (Social Determinants of Health)</td>
<td></td>
</tr>
<tr>
<td>PH 777</td>
<td>Quantitative Research Methods for PH Policy &amp; Administration</td>
<td></td>
</tr>
<tr>
<td>PH 779</td>
<td>Public Health Policymaking and Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>PH 781</td>
<td>Public Health Administration</td>
<td></td>
</tr>
<tr>
<td>PH 785</td>
<td>Principles of Public Health Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

Content Electives

Choose at least one

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 769</td>
<td>Critical Perspectives on Nutritional Epidemiology and the Food System</td>
<td></td>
</tr>
<tr>
<td>PH 774</td>
<td>Violence and Health</td>
<td></td>
</tr>
<tr>
<td>PH 784</td>
<td>Social and Economic Policy as Health Policy</td>
<td></td>
</tr>
<tr>
<td>PH 820</td>
<td>Maternal and Child Health Foundations, Policy and Practice</td>
<td></td>
</tr>
<tr>
<td>PH 859</td>
<td>Racial/Ethnic Health Disparities in the United States</td>
<td></td>
</tr>
</tbody>
</table>

Other classes as approved by advisor

Methods Electives

Choose at least one

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 726</td>
<td>Community Health Assessment</td>
<td></td>
</tr>
<tr>
<td>PH 727</td>
<td>Program Planning &amp; Implementation in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 728</td>
<td>Program Evaluation in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 729</td>
<td>Survey Research Methods in Public Health</td>
<td></td>
</tr>
</tbody>
</table>

* University of Wisconsin-Milwaukee
Program Requirements

Faculty Advisor
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Thesis
Not required. See capstone for similar culminating experience.

Comprehensive Examination
Not required. See capstone for similar culminating experience.

Time Limit
The student must complete all degree requirements within five years of initial enrollment.
PUBLIC HEALTH PHD: BIOSTATISTICS

Related Certificate


The Biostatistics doctoral program is designed to train students in the development of techniques, methods and tools to conduct public health research using rigorous statistical, bioinformatics and general quantitative methods. Faculty interest areas include: bioinformatics, statistical genetics, network analysis, causal inference, survival analysis, and high throughput computing.

Students entering the program will be trained at the graduate level in the analysis of data from genetics and genomics, electronic medical records, and population-based epidemiological studies. Such research will include approaches requiring large populations, large data sets, and as needed, the collection, processing and analysis of data used in the pursuit of improving the public’s health. Graduates of this program will be able to participate and execute the study design, data collection, analysis and dissemination of results. Technical areas include database management, causal inference, network analysis, medical and population genetics, as well as tools and techniques for acquiring, processing, warehousing, and analyzing public health data. Other areas of expertise include data mining, computer-based decision support systems, and computational biology. The Ph.D. in Public Health with a concentration in Biostatistics requires 69 course credits beyond the Bachelor's degree. Coursework includes core courses as outlined below, methods courses, electives, and credits taken as doctoral research.

Upon graduation, a student completing the requirements for the Ph.D. in Public Health with a concentration in Biostatistics will be able to:

1. Develop new statistical methodologies to solve problems in biomedical, clinical, public health, or other fields
2. Contribute to the body of knowledge in the field of biostatistics by writing and successfully submitting manuscripts for publication in a peer-reviewed journal
3. Perform all responsibilities of a statistician in collaborative research; in particular: design studies, manage and analyze data and interpret findings from a variety of biomedical, clinical or public health experimental and observational studies
4. Communicate statistical information effectively with individuals with varying degrees of statistical knowledge through written and oral presentations
5. Use statistical, bioinformatic and other computing software to organize, analyze, and visualize data
6. Review and critique statistical methods and interpretation of results in published research studies, presentations, or reports
7. Demonstrate solid theoretical knowledge necessary for the development and study of new statistical methods
8. Understand and implement modern statistical approaches emerging in the literature to improve biomedical and public health

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission Requirements

Admission

Applicants to the PhD program in Public Health with a concentration in Biostatistics should have completed academic programs that facilitated development of solid analytical skills. Applicable baccalaureate programs include mathematics, statistics, computer science, and engineering. Baccalaureate degrees in related fields will be considered. A minimum undergraduate grade point average of 3.00 (A=4.00) is required.

Applicants from diverse backgrounds are encouraged to apply. Each application will be evaluated individually primarily on the basis of academic achievement, although relevant work experience will also be considered.

Applicants to the PhD program in Public Health with a concentration in Community and Behavioral Health Promotion should have completed academic programs that facilitated development of solid analytical and communication skills. Applicable baccalaureate programs include those in the social and behavioral sciences, health and health-related sciences, and biological sciences. Baccalaureate degrees in related fields will be considered. At least one statistics course is preferred for admission. A minimum undergraduate grade point average of 3.00 (A=4.00) is preferred. While a completed master’s degree in public health or the social and behavioral sciences is encouraged, a master’s degree is not a prerequisite for admission. For those applicants without a master’s degree in a relevant field, most successful candidates will have work, research and/or volunteer experiences that contribute to career development in community health and health promotion. Demonstrated communication and analytic skills are required. Applicants from diverse backgrounds with a strong interest in community health and health promotion are encouraged to apply. Each application will be evaluated individually on the basis of four key areas:

1. Academic record/achievement.
2. Work, research, and/or community experience.
3. Commitment/interest/awareness of public health and community health promotion.
4. Matching interest with current Community and Behavioral Promotion Health faculty.

Graduate Record Examination (GRE) scores from the general test (verbal, quantitative, analytical writing) are required of all applicants. Submitted test scores must be from a test taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.

Students must meet UWM Graduate School admission requirements. For international applicants whose native language is not English, the UW-Milwaukee Center for International Education Website provides English Language Proficiency Requirements including required TOEFL or IELTS scores. Students who attended an international university must also pay an additional fee for evaluation of international transcripts.

In addition, a personal statement, and at least three letters of recommendation from individuals familiar with the applicant’s scholarship, research achievements, and/or academic potential are required for the application. The letters of recommendation should address the candidate’s potential for achievement in a graduate program from an academic as well as personal (e.g., commitment, integrity,
ethical) standpoint. At least one letter must be from a university faculty member.

A select group of the most qualified candidates will be invited to participate in an interview process. In-person or internet-facilitated interviews (Skype, etc.) will be required for finalist candidates prior to admission.

Applicants may be admitted with course deficiencies at the discretion of the ZSPH Graduate Program Committee. The student is expected to rectify these course deficiencies with a grade of B or better within three enrolled semesters. The academic program unit will monitor deficiencies. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For students entering with an advanced degree, the Admissions Committee can grant credit for relevant coursework at its discretion, but at least half of the graduate credits required for the PhD must be completed at UW-Milwaukee in doctoral status in accordance with Graduate School policy. Thesis, dissertation, and research credits must be completed at UW-Milwaukee.

Reapplication
A student who receives the Master of Public Health degree must formally reapply to the Zilber School of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

Biostatistics Concentration
Minimum degree requirement is 60 graduate credits beyond the bachelor’s degree (plus an additional 9 credits dedicated to dissertation writing and research), at least 35 of which must be earned in residence at UWM. The student, in consultation with the major professor, must create a plan of study and submit to the Biostatistics Faculty by the end of the first year. Minimum course requirements for all work requires approximately two to three full years of study.

Required Core PhD Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 801</td>
<td>Seminar in Public Health Research</td>
<td>3</td>
</tr>
<tr>
<td>PH 819</td>
<td>Social and Environmental Justice in Public Health</td>
<td>3</td>
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</table>

Methods Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MTHSTAT 761</td>
<td>Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 762</td>
<td>Mathematical Statistics II</td>
<td>3</td>
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Select one of the following:

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 571</td>
<td>Introduction to Probability Models</td>
<td>3</td>
</tr>
<tr>
<td>MATH 771</td>
<td>Theory of Probability</td>
<td></td>
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<tr>
<td>MCW 04285</td>
<td>Introduction to Bayesian Analysis</td>
<td></td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 718</td>
<td>Data Management and Visualization in R (TBD)</td>
<td>3</td>
</tr>
<tr>
<td>PH 813</td>
<td>Practice of Biostatistical Consulting</td>
<td>3</td>
</tr>
<tr>
<td>PH 818</td>
<td>Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td>PH 911</td>
<td>Generalized Linear Models (TBD)</td>
<td>3</td>
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Total Credits 36

Electives (at least 27 credits)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PH 714</td>
<td>Statistical Genetics and Genetic Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 715</td>
<td>Applied Categorical Data</td>
<td>3</td>
</tr>
<tr>
<td>PH 716</td>
<td>Applied Survival Analysis (TBD)</td>
<td>3</td>
</tr>
<tr>
<td>PH 717</td>
<td>Applied Longitudinal Data Analysis (TBD)</td>
<td>3</td>
</tr>
<tr>
<td>PH 720</td>
<td>Special Topics in Biostatistics:</td>
<td>1-3</td>
</tr>
<tr>
<td>PH 721</td>
<td>Introduction to Translational Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>PH 723</td>
<td>Design, Conduct and Analysis of Clinical Trials (TBD)</td>
<td>3</td>
</tr>
<tr>
<td>PH 758</td>
<td>Social Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 762</td>
<td>Environmental Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 768</td>
<td>Cancer Epidemiology (TBD)</td>
<td>3</td>
</tr>
<tr>
<td>PH 769</td>
<td>Critical Perspectives on Nutritional Epidemiology and the Food System (TBD)</td>
<td>3</td>
</tr>
<tr>
<td>PH 8XX</td>
<td>Statistical Learning TBD</td>
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<tr>
<td>PH 8XX</td>
<td>Network Analysis TBD</td>
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<tr>
<td>PH 8XX</td>
<td>Causal Inference TBD</td>
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<tr>
<td>COMPSCI 708</td>
<td>Scientific Computing</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 711</td>
<td>Introduction to Machine Learning</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 597</td>
<td>RNA Structure, Function, and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 490</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 564</td>
<td>Time Series Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 565</td>
<td>Nonparametric Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 768</td>
<td>Applied Stochastic Processes</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 863</td>
<td>Hypothesis Testing</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 869</td>
<td>Advanced Topics in Mathematical Statistics:</td>
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</tr>
<tr>
<td>PH 811</td>
<td>Causal Inference</td>
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</tr>
<tr>
<td>PH 812</td>
<td>Statistical Learning &amp; Data Mining</td>
<td>3</td>
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</tbody>
</table>

Code          | Title                                | Credits |
<table>
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<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
<td>1-8</td>
</tr>
</tbody>
</table>

Program Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering student is assigned an advisor/major professor at admission based on fit and focus. The major professor serves as the student’s research mentor and will guide the student in course selection, program planning, and research design. Students may change their advisor/major professor if the fit and focus change over time. Such changes will need approval of the graduate program committee. The major professor must have graduate faculty status.

Residence
The student must meet minimum Graduate School residence requirements.
Preliminary Exam Process
The preliminary exams must be successfully completed within five years of initial enrollment in the Ph.D. program.

Students must successfully complete a preliminary examination process before formally achieving dissertator status. When the student is sufficiently prepared, a doctoral preliminary examination to determine the student’s knowledge and achievement is taken. The exam evaluates the student’s general knowledge of mathematical statistics, and general biostatistical and quantitative methods. Students must pass this examination to continue in the program. With permission of the examination committee, the student may repeat this examination once within one year. After successful completion of the qualifying process, the student will concentrate on the development of the dissertation.

Time Limit
All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.
PUBLIC HEALTH PHD: COMMUNITY AND BEHAVIORAL HEALTH PROMOTION

Related Certificate

The Community and Behavioral Health Promotion (CBHP) doctoral program is designed to train students in social and behavioral science aspects of public health research and intervention with a particular emphasis on the development of community-level interventions. Faculty interest areas include: maternal, infant, and child health; health disparities; obesity; nutrition; food security; HIV and STD prevention; adolescent health; violence prevention; substance abuse prevention; creating healthy environments; and promoting mental health.

Students entering the program will be trained at the graduate level in community and behavioral health promotion from a public health perspective. Students will also have exposure to other key areas of public health (environmental health, epidemiology, biostatistics, and policy and administration), providing a broad foundation of public health research and practice. The Ph.D. in Public Health with a concentration in CBHP requires 72 course credits beyond the Bachelor’s degree. Coursework includes core courses as outlined below, research and methods courses, electives, and credits taken as pre-dissertation research supporting CBHP faculty research. In addition, students will prepare for public health leadership through their own original research.

Student research in community and behavioral health promotion may focus on the social and behavioral determinants of disease, illness, injury, and health, the interaction of social and behavioral factors with biological or environmental factors, or the efficacy of interventions to improve health through social and behavioral strategies within community settings.

This program aligns with UWM’s mission to further academic opportunities at all levels for women, minority, part-time students, and financially or educationally disadvantaged students. In addition, the program consistently strives for diversity within its faculty ranks to achieve the University’s goal for cultural competency in teaching and learning.

Upon graduation, a student completing the requirements for the Ph.D. in Public Health with a concentration in Community and Behavioral Health Promotion will be able to:

1. Describe and critically evaluate the utility of key social and behavioral science theories for public health research.
2. Design and implement theory driven community and behavioral health prevention and intervention research.
3. Apply social and environmental justice philosophies, theories, and frameworks to public health research and the interpretation of research findings.

4. Describe the social-political-historical contexts that have shaped the development of community engaged research including community based participatory approaches.
5. Describe the unique contributions of community engaged approaches to community and behavioral health research and interventions.
6. Critically appraise different methodological strategies in developing and implementing community engaged research.
7. Apply qualitative and advanced quantitative methods to the study of public health problems, the assessment of community strengths and the evaluation of prevention and intervention programs.
8. Use research findings to advocate for policies, programs, and resources that improve the health of communities.
9. Demonstrate an advanced understanding of how to manage ethical issues in community and behavioral health research and practice.
10. Demonstrate respect for the integrity and perspectives of others in all professional contexts.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission
Applicants to the PhD program in Public Health with a concentration in Biostatistics should have completed academic programs that facilitated development of solid analytical skills. Applicable baccalaureate programs include mathematics, statistics, computer science, and engineering. Baccalaureate degrees in related fields will be considered. A minimum undergraduate grade point average of 3.00 (A=4.00) is required. Applicants from diverse backgrounds are encouraged to apply. Each application will be evaluated individually primarily on the basis of academic achievement, although relevant work experience will also be considered.

Applicants to the PhD program in Public Health with a concentration in Community and Behavioral Health Promotion should have completed academic programs that facilitated development of solid analytical and communication skills. Applicable baccalaureate programs include those in the social and behavioral sciences, health and health-related sciences, and biological sciences. Baccalaureate degrees in related fields will be considered. At least one statistics course is preferred for admission. A minimum undergraduate grade point average of 3.00 (A=4.00) is preferred. While a completed master’s degree in public health or the social and behavioral sciences is encouraged, a master’s degree is not a prerequisite for admission. For those applicants without a master’s degree in a relevant field, most successful candidates will have work, research and/or volunteer experiences that contribute to career development in community health and health promotion. Demonstrated communication and analytic skills are required. Applicants from diverse backgrounds with a strong interest in community health and health promotion are encouraged to apply. Each application will be evaluated individually on the basis of four key areas:

1. Academic record/achievement.
2. Work, research, and/or community experience.
3. Commitment/interest/awareness of public health and community health promotion.
4. Matching interest with current Community and Behavioral Promotion Health faculty.

Graduate Record Examination (GRE) scores from the general test (verbal, quantitative, analytical writing) are required of all applicants. Submitted test scores must be from a test taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.

Students must meet UWM Graduate School admission requirements. For international applicants whose native language is not English, the UW-Milwaukee Center for International Education Website provides English Language Proficiency Requirements including required TOEFL or IELTS scores. Students who attended an international university must also pay an additional fee for evaluation of international transcripts.

In addition, a personal statement, and at least three letters of recommendation from individuals familiar with the applicant’s scholarship, research achievements, and/or academic potential are required for the application. The letters of recommendation should address the candidate’s potential for achievement in a graduate program from an academic as well as personal (e.g., commitment, integrity, ethical) standpoint. At least one letter must be from a university faculty member.

A select group of the most qualified candidates will be invited to participate in an interview process. In-person or internet-facilitated interviews (Skype, etc.) will be required for finalist candidates prior to admission.

Applicants may be admitted with course deficiencies at the discretion of the ZSPH Graduate Program Committee. The student is expected to rectify these course deficiencies with a grade of B or better within three enrolled semesters. The academic program unit will monitor deficiencies. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For students entering with an advanced degree, the Admissions Committee can grant credit for relevant coursework at its discretion, but at least half of the graduate credits required for the PhD must be completed at UW-Milwaukee in doctoral status in accordance with Graduate School policy. Thesis, dissertation, and research credits must be completed at UW-Milwaukee.

Reapplication
A student who receives the Master of Public Health degree must formally reapply to the Zilber School of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

Concentration in Community and Behavioral Health Promotion
A minimum of 72 credits of coursework beyond the bachelor’s level must be completed to earn the degree, at least 35 of which must be earned in residence at UW-Milwaukee. The course list consists of required common Ph.D. core courses, CBHP core courses, research and methods courses, and elective courses. Also, students will be required to complete three credits of supervised research under the tutelage of the primary advisor prior to the required dissertation research requirement. This is to ensure that all students obtain hands-on, supervised research training. After achieving dissertation status, students will enroll in three research credits per semester for at least two semesters.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td>1</td>
</tr>
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</table>

Required Core PhD Courses 12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td></td>
</tr>
<tr>
<td>PH 801</td>
<td>Seminar in Public Health Research</td>
<td></td>
</tr>
<tr>
<td>PH 819</td>
<td>Social and Environmental Justice in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 859</td>
<td>Racial/Ethnic Health Disparities in the United States</td>
<td></td>
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</tbody>
</table>

CBHP PhD Required Courses 36

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td></td>
</tr>
<tr>
<td>PH 725</td>
<td>Theories and Models of Health Behavior</td>
<td></td>
</tr>
<tr>
<td>PH 727</td>
<td>Program Planning &amp; Implementation in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 728</td>
<td>Program Evaluation in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 729</td>
<td>Survey Research Methods in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 776</td>
<td>Qualitative Approaches in Public Health Policy and Administration</td>
<td></td>
</tr>
<tr>
<td>PH 820</td>
<td>Maternal and Child Health Foundations, Policy and Practice</td>
<td></td>
</tr>
<tr>
<td>PH 823</td>
<td>Applied Analysis of Binary Outcomes in Public Health Research 2</td>
<td></td>
</tr>
<tr>
<td>PH 826</td>
<td>Principles of Community Intervention Research</td>
<td></td>
</tr>
<tr>
<td>PH 827</td>
<td>Research Design in Community and Behavioral Health Promotion</td>
<td></td>
</tr>
<tr>
<td>PH 831</td>
<td>Community Engagement and Participatory Research Approaches in Public Health</td>
<td></td>
</tr>
<tr>
<td>PH 919</td>
<td>Core Seminar in Community and Behavioral Health Promotion</td>
<td></td>
</tr>
</tbody>
</table>

Required Advanced Quantitative Courses 3

Choose at least one course:

- PH 715 Applied Categorical Data
- PH 716 Applied Survival Analysis
- PH 717 Applied Longitudinal Data Analysis
- SOCIO 982 Advanced Quantitative Analysis
- ED PSY 823 Structural Equation Modeling
- ED PSY 826 Analysis of Cross-Classified Categorical Data

CBHP Elective Courses 4

Choose at least three courses:

- ANTHRO 803 Survey of Cultural Anthropology
- ANTHRO 744 Theories of Social Action: Understanding Agency & Social Structure
- PH 752 Public Health and Mental Health
- PH 758 Social Epidemiology
- PH 768 Cancer Epidemiology
- PH 769 Critical Perspectives on Nutritional Epidemiology and the Food System
- HS 917 Seminar in Health Outcomes Assessment
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>SOCIOL 910</td>
<td>The Sociology of Inequality</td>
</tr>
<tr>
<td>SOCIOL 982</td>
<td>Advanced Quantitative Analysis</td>
</tr>
<tr>
<td>SOCIOL 715</td>
<td>Systematic Sociological Theory</td>
</tr>
<tr>
<td>GEOG 834</td>
<td>GIS and Society</td>
</tr>
<tr>
<td>GEOG 926</td>
<td>Advanced Geographic Information Science: Geographic Modeling</td>
</tr>
<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare</td>
</tr>
<tr>
<td>ED POL 711</td>
<td>Community Change and Engagement Strategies:</td>
</tr>
<tr>
<td>KIN 732</td>
<td>Physical Activity and Health Across the Lifespan</td>
</tr>
</tbody>
</table>

**Pre-Dissertation Research**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
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</tbody>
</table>

**Doctoral Thesis**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PH 990</td>
<td>Research and Dissertation</td>
</tr>
</tbody>
</table>

**Total Credits**

72 credits

1. Prereq: PH 702 Introduction to Biostatistics or approval for equivalent course.
2. Or other qualitative analysis course approved by advisor.
3. Other advanced quantitative courses will be considered.
4. Other electives may be considered (such as advanced qualitative and quantitative courses).

**Program Requirements**

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering student is assigned an advisor/major professor at admission based on fit and focus. The major professor serves as the student’s research mentor and will guide the student in course selection, program planning, and research design. Students may change their advisor/major professor if the fit and focus change over time. Such changes will need approval of the graduate program committee. The major professor must have graduate faculty status.

**Residence**

The student must meet minimum Graduate School residence requirements.

**Preliminary/Qualifying Exam Process**

The qualifying exams must be successfully completed within five years of initial enrollment in the Ph.D. program.

The preliminary exam is designed to assess a student’s mastery of knowledge and skills to ensure adequate preparation for individual dissertation research. Students taking the preliminary exam are expected to demonstrate knowledge, competency and mastery of core public health concepts, issues and content relevant to the CBHP PhD Program. The preliminary exam consists of three sections: an open book integrative review, a closed book exam focusing on a case study, and an oral exam. (Please refer to the CBHP Qualifying Exam Policies and Procedures.) At the discretion of the examining committee, a student who fails the qualifying process may be allowed one additional attempt with all or part of the examination. After successful completion of the qualifying process, the student will concentrate on the development of the dissertation.

**Time Limit**

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.
The Zilber School of Public Health (SPH) offers a Master of Public Health (MPH), a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

Master of Public Health

The Master of Public Health offered by the Zilber SPH is a professional master’s degree program with five distinct tracks of study. The MPH program provides students with a broad understanding of public health practice and allows specialization in Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration.

Like most MPH programs, the Zilber SPH’s program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber SPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the five areas. Upon graduation students are prepared for positions in a range of population health settings and/or for doctoral-level study.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements plus as the desired track of study requires; the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant’s academic experience and potential for graduate work in public health.
2. CV or resume.
3. Score report from the General Test of the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre), taken within the last five years.
4. The admissions committee may consider GMAT (http://uwm.edu/graduateschool/admission/#gmat), LSAT, MCAT scores in place of GRE (http://uwm.edu/graduateschool/admission/#gre) scores.

Students requesting this or any other exception should apply in writing for consideration by the Applications Review Committee.

5. Address the following two Short Essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
   • Describe how your professional, volunteer, and educational background has led you to seek a degree in Public Health.
   • How will your desired track of study help you reach your personal and professional goals in Public Health?

6. International applicants must also meet admission standards set and monitored by UWM’s Center for International Education.

7. MPH applicants must use SOPHAS (https://sophas.org) to apply. When applying applicants must select their track of which they are applying; Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy & Administration.

8. Tracks may have additional admission requirements, which can be found here (http://uwm.edu/publichealth/faqs).

Credits and Courses

All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24 credit hours, including at least a four-credit Field Experience and a two-credit capstone seminar. In addition to the common core, students complete the required coursework in one of five specialization tracks: Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, or Public Health Policy and Administration. The MPH degree varies from 46-48 credits depending on the track. Students must maintain a cumulative G.P.A. of 3.0 or better in order to progress through the program.

Unless noted, all courses are 3 credits.

MPH Required Core Courses (at least 24 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PH 703</td>
<td>Environmental Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PH 704</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PH 705</td>
<td>Principles of Public Health Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PH 706</td>
<td>Perspectives on Community &amp; Behavioral Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 708</td>
<td>Health Systems and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 790</td>
<td>Field Experience in Public Health (See following section for details)</td>
<td>4</td>
</tr>
<tr>
<td>PH 800</td>
<td>Capstone in Public Health (See following section for details)</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 24

1 Satisfactory/Unsatisfactory; may be taken for 1, 2, 3, or 4 credits in a given semester.
2 Completed in the final year of study.

Field Experience
The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and school staff to
identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. The experience is a mentored placement engaging both a Faculty Advisor and a Site Preceptor.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be foundational competencies (see Field Experience Handbook), and two of which are identified from the track competency sets. One foundational competency is required of all students:

• 19. Communicate audience-appropriate public health content, both in writing and through oral presentation

Students complete at least two products as agreed upon with the Site Preceptor.

In addition to the three credits/240 hours with an organization, students complete a one-credit module as part of the Field Experience designed to integrate competencies in leadership, negotiation, and interprofessional teamwork. The required competencies are:

• CEPH 16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making.
• CEPH 17. Apply negotiation and mediation skills to address organizational or community challenges.
• CEPH 21. Perform effectively on interprofessional teams.

Students fulfill these competencies through a series of activities including forums, workshops, case studies, an 8-week course, or specific projects at the organization. Students from at least two professions constitute an interprofessional team. Assessments for the leadership, negotiation and interprofessional team competencies may be presentations in a forum, written reflections, or other written and/or oral exercises.

All four credits may be taken in one semester, or spread out over two semesters.

**Capstone**

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student’s interests and career goals. Students then implement the project during their final semester of the program. The project has both a written paper and oral presentation component, in addition to attending a weekly seminar. The capstone project is an opportunity for students to demonstrate public health competencies.

**Program Requirements**

**Faculty Advisor**

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student.

UWM’s Zilber School recognizes the importance of a strong faculty advising program coupled with a sound system for monitoring student progress in all programs. Each semester, students are asked to assess their own progress through a required survey. They also complete a progress form together with their advisor. Feedback to students will be provided by 1) their faculty advisor in December during their advisor-student meeting and 2) a letter in May signed by their faculty advisor and program director confirming progress and noting any guidance for subsequent years, including plans and timetable for remediation when necessary.

Administrative offices of the Zilber School of Public Health have staff assigned on policies and procedures for admission, academic progression, and graduation. If deemed necessary, any student can petition to the Zilber SPH’s Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the program.

**Thesis**

Not required. See capstone for similar culminating experience.

**Comprehensive Examination**

Not required. See capstone for similar culminating experience.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.
PUBLIC HEALTH, PHD

Related Certificate

Students will choose between two concentrations in the Ph.D. in Public Health offered by UW-Milwaukee's Joseph J. Zilber School of Public Health. The two concentrations share a common core of four courses for a total of 12 credits toward the required coursework. Students in the concentration in Biostatistics will select an elective to replace the introductory biostatistics course, as they will likely enter the program having already completed that level.

Admission Requirements

Application Deadlines
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Admission
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Applicants to the PhD program in Public Health with a concentration in Community and Behavioral Health Promotion should have completed academic programs that facilitated development of solid analytical and communication skills. Applicable baccalaureate programs include those in the social and behavioral sciences, health and health-related sciences, and biological sciences. Baccalaureate degrees in related fields will be considered. At least one statistics course is preferred for admission. A minimum undergraduate grade point average of 3.00 (A=4.00) is preferred. While a completed master's degree in public health or the social and behavioral sciences is encouraged, a master's degree is not a prerequisite for admission. For those applicants without a master's degree in a relevant field, most successful candidates will have work, research and/or volunteer experiences that contribute to career development in community health and health promotion. Demonstrated communication and analytic skills are required. Applicants from diverse backgrounds with a strong interest in community health and health promotion are encouraged to apply. Each application will be evaluated individually on the basis of four key areas:

1. Academic record/achievement.
2. Work, research, and/or community experience.
3. Commitment/interest/awareness of public health and community health promotion.
4. Matching interest with current Community and Behavioral Promotion Health faculty.

Graduate Record Examination (GRE) scores from the general test (verbal, quantitative, analytical writing) are required of all applicants. Submitted test scores must be from a test taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.

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Reapplication
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Program Requirements

Major Professor as Advisor
The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The entering student is assigned an advisor/major professor at admission based on fit and focus. The major professor serves as the student’s research mentor and will guide the student in course selection, program planning, and research design. Students may change their advisor/major professor if the fit and focus change over time. Such changes will need approval of the graduate program committee. The major professor must have graduate faculty status.

Residence
The student must meet minimum Graduate School residence requirements.
The Helen Bader School of Social Welfare offers programs to educate students about social policies and programs, and to train them for beginning level practice in a variety of professional roles in social work and criminal justice. Its location in metropolitan Milwaukee gives students numerous opportunities to gain practical experience in social, health, educational, or criminal justice agencies.

Undergraduate majors in both social work and criminal justice lead to the Bachelor of Science degree, and are designed to prepare students for available entry-level positions in their respective fields. These programs also provide excellent preparation for graduate work.

The School also offers graduate programs at the master's degree level in both criminal justice and social work.

**Degree Programs**

**Bachelor of Science** Criminal Justice, Social Work

**Master of Science**

**Master of Social Work**

**Doctor of Philosophy** Social Welfare

**Departments and Programs**

- Criminal Justice (p. 1893)
  - Crime Analysis, Undergraduate Certificate (p. 1898)
  - Criminal Justice, BS (p. 1900)
  - Criminal Justice, Minor (p. 1902)
  - Criminal Justice, MS (p. 1902)
  - Criminal Justice, MS/Public Administration, MPA (p. 1903)
  - Criminal Justice, MS/Social Work, MSW (p. 1904)
  - Criminal Justice, MS: Crime Analytics (p. 1898)
  - Death Investigation, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1905)
  - Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1906)
  - Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1907)
  - Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1908)
  - Military Science (p. 1908)
  - Social Work (p. 1912)
    - Applied Data Analysis Using SAS, Graduate Certificate (p. 1919)
    - Applied Gerontology, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1920)
    - Social Welfare, PhD (p. 1921)
    - Social Work, BS (p. 1924)
    - Social Work, MSW (p. 1926)
    - Social Work, MSW/Criminal Justice, MS (p. 1928)
    - Social Work, MSW/Social Welfare, PhD (p. 1929)
    - Social Work, MSW/Women's and Gender Studies, MA (p. 1932)
    - Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1933)

- Youth Work, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1934)

**Graduate Admission Requirements**

Each graduate program has admission requirements in addition to the general Graduate School admission requirements. Refer to Graduate Admissions and Cost (p. 17) for the graduate school's admission requirements, and to the specific program for the program's admission requirements.

**Undergraduate Admission**

**Freshmen**

Freshmen entering UWM who indicate an interest in criminal justice or social work are admitted directly into the Helen Bader School of Social Welfare, and are designated criminal justice or social work majors.

Admission to the University does not guarantee enrollment in the social work major; a separate application will be required to advance in the major.

**Transfer Students**

Transfer students who transfer from outside UWM to criminal justice or social work become criminal justice or social work intended majors upon admission regardless of the number of credits they transfer. They can apply for admission to the major when they have at least junior standing and have completed one full-time semester or the equivalent at UWM.

Those who transfer from two-year UW College campuses, Milwaukee Area Technical College, and other two-year institutions (junior colleges) are generally allowed to transfer up to 72 credits toward a degree in the Helen Bader School of Social Welfare.

**Second Bachelor's Degree Students**

Second bachelor's degree students applying to the University who already hold one bachelor's degree and who wish to pursue a second degree in either criminal justice or social work are directly admitted and social work majors must submit a separate application to advance in the major. They must complete at least 30 credits at UWM beyond the credits that counted toward the first degree, and must satisfy the same degree and curriculum requirements as students working towards a first degree in the same major.

Special students in the Helen Bader School of Social Welfare and University special students are permitted to register in any undergraduate course offered by the School, provided they meet the stated prerequisites or are admitted to the course by the instructor.

**Graduate Requirements**

Refer to individual graduate program for specific requirements. For the Graduate School's requirements, please refer to Graduate School Policies (p. 22).

**Undergraduate Requirements**

**Degree Requirements**

To receive the bachelor's degree with a criminal justice or social work major, the student must complete at least 30 degree credits at UWM. In both majors, an overall GPA (including non-UWM college work) of 2.0 and a total of 120 credits are needed for graduation. At least 15 credits in the criminal justice or 21 credits in the social work portion of the major must be earned at UWM. Social work students must complete at least
one semester of field placement at UWM. Students must earn their last 30 credits at UWM.

Course of Study
All social work and criminal justice majors who began their education in fall 1999 or later must meet the requirements below. Others should contact an advisor in the School to determine their degree requirements.

General Curriculum Requirements: Social Work and Criminal Justice
For courses that satisfy the distribution requirements in humanities, natural science, and social science, see the GER listing in the current Timetable (http://www4.uwm.edu/schedule). The UWM General Education Requirements (p. 33) apply to all students who were not enrolled in an accredited institution prior to 1986.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI 385</td>
<td>American Political Thought</td>
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<tr>
<td>POL SCI 405</td>
<td>State Government</td>
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<tr>
<td>POL SCI 411</td>
<td>Constitutional Law: Government Powers and Federalism</td>
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</tr>
<tr>
<td>POL SCI 412</td>
<td>Constitutional Law: Civil Rights and Liberties</td>
<td></td>
</tr>
<tr>
<td>POL SCI 471</td>
<td>Problems in Law Studies</td>
<td></td>
</tr>
<tr>
<td>SOCIOL 200</td>
<td>Contemporary American Society</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 27

Requirements in the Major
A minimum total of 57-69 credits is required. See the individual degree pages in social work and criminal justice for the specific requirements of each major.

Electives
Students may take up to 30 elective credits in courses outside the Helen Bader School of Social Welfare and the College of Letters and Science. Credits earned in HONORS 687 or HONORS 689 will not count towards either major.

Requirements for Employment, Licensing, or Professional Organizations
Effective October 1, 1998, changes in Chapters 48 (Children’s Code) and 50 (Uniform Licensure) of the Wisconsin State Statutes make it a requirement for selected organizations to perform rigorous background checks of persons who provide care for vulnerable adults and children or who have access to people who receive such care.

The results of these background checks are intended to help employers and government officials in making employment and licensing decisions. The law affects anyone who is employed as a caregiver or who has access to clients within caregiving organizations, including students. The organizations required to perform these background checks are those that are regulated by the State Department of Health and Family Services (DHFS).

The law means that if you are going to train (including a field or clinical placement) or work in an agency providing care to vulnerable adults or children, and that agency is regulated by DHFS, a background check will be required of you. A background check may be required even if you do not have direct caregiving responsibilities to clients. Depending on the circumstances, a student may be disqualified from field placement in certain agencies as a result of this law. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly.

Graduate Policies and Regulations
The Graduate School policies and regulations can be found at Graduate School Policies (p. 22). Please refer to the specific program for program policies and regulations.

Undergraduate Policies and Regulations
Academic Regulations
For information on actions on unsatisfactory grades and honors for scholarship, see Academic Policies (p. 27).
Semester Course Load
Registration for more than 18 credits in a given semester requires the advisor's permission. For students in the School's majors, this permission will be given upon advice of the appropriate program chair.

Change in Requirements
If curriculum requirements are changed after the student has been formally accepted in the major, the student is free to remain with the former requirements or to follow the new ones.

Administration
Stan Stojkovic
Dean

Gwat-Yong Lie
Associate Dean

Joan Blakey
Chair, Social Work Department

Amy Kirby
Coordinator, Graduate Social Work Program

Margaret Maillet
Coordinator, Undergraduate Social Work Program

Tina Freiburger
Chair, Criminal Justice Department

Contact Information
Student Services
Enderis Hall, 1110

Phone: (414) 229-4852
http://uwm.edu/socialwelfare/
CRIMINAL JUSTICE

Study the criminal justice system through legal and political lenses, examining the nature, causes and impact of crime. Students learn through courses taught by experienced faculty, and in fieldwork opportunities, to improve their listening, speaking, writing, analytical and evaluative skills. They graduate prepared to work in law enforcement, corrections and the courts.

Undergraduate Certificate Program in Forensic Sciences

The Criminal Justice Program in the Helen Bader School of Social Welfare cooperates with the Departments of Anthropology and Chemistry in the College of Letters and Science and the Biomedical Sciences Program in the College of Health Sciences to offer studies in forensic sciences. Certificates can be earned in Death Investigation, Forensic Sciences, and Forensic Toxicology.

Programs

- Crime Analysis, Undergraduate Certificate (p. 1898)
- Criminal Justice, BS (p. 1900)
- Criminal Justice, Minor (p. 1902)
- Criminal Justice, MS (p. 1902)
- Criminal Justice, MS/Public Administration, MPA (p. 1903)
- Criminal Justice, MS/Social Work, MSW (p. 1904)
- Criminal Justice, MS: Crime Analytics (p. 1898)
- Death Investigation, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1905)
- Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1906)
- Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 1907)

Criminal Justice Courses

CRM JST 105 Orientation for Social Welfare Students
1 cr. Undergraduate.
Prepares students to participate in UWM's educational process and to explore career choices in social welfare.
Prerequisites: Frst only.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CRM JST 110 Introduction to Criminal Justice
3 cr. Undergraduate.
Survey of the present structure, philosophy, procedures, future prospects of police, courts, corrections, and of the penal system in American society.
Prerequisites: none.
General Education Requirements: SS
Current Offerings: http://uwm.edu/schedule

CRM JST 271 Police Process
3 cr. Undergraduate.
An interdisciplinary analysis of the role of police in a democratic society; emphasis on historical development of police institution, cultural attributes, accountability, occupational socialization, police-behavior, and selected current issues.
Prerequisites: Crm Jst 110(P).
Current Offerings: http://uwm.edu/schedule

CRM JST 273 Correctional Process
3 cr. Undergraduate.
Analysis of role of corrections in American criminal justice. Emphasis on describing and assessing the effectiveness of correctional models in prisons, jails, probation, and parole.
Prerequisites: Crm Jst 110(P).
Current Offerings: http://uwm.edu/schedule

CRM JST 275 Criminal Court Process
3 cr. Undergraduate.
Examination of criminal judicial process from setting bail through sentencing, role of courts within criminal justice. Analysis of structure, professional roles, and procedural law governing processing.
Prerequisites: Crm Jst 110(P).
Current Offerings: http://uwm.edu/schedule

CRM JST 281 Dead Men Do Tell Tales: An Introduction to Forensic Science
3 cr. Undergraduate.
A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CRM JST 285 Medicolegal Death Investigation
3 cr. Undergraduate.
Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

CRM JST 291 Current Issues in Criminal Justice:
1-3 cr. Undergraduate.
Selected current issues in criminal justice.
Prerequisites: none.
Course Rules: May be retaken with change in topic to max of 6 cr.
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule
CRM JST 297 Study Abroad:  
1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.  
Prerequisites: acceptance for Study Abroad Prog.  
Course Rules: May be retaken with change in topic.  
Current Offerings: http://uwm.edu/schedule

CRM JST 300 Criminal Process  
3 cr. Undergraduate.  
Analysis of the problems of the criminal justice system in separating the guilty and the innocent. Discussion of constitutional issues and technical procedural problems involved.  
Prerequisites: jr st; Crm Jst 110(P).  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

CRM JST 301 Criminal Law  
3 cr. Undergraduate.  
Principles, theories and doctrines of the law of crimes with a unified study of legal defense.  
Prerequisites: jr st; Crm Jst 110(P).  
Current Offerings: http://uwm.edu/schedule

CRM JST 304 Gangs and Organized Crime  
3 cr. Undergraduate.  
Provides an overview of domestic and international gangs and organized crime networks. The challenges these organizations bring to the criminal justice system are also discussed.  
Prerequisites: none  
Course Rules: Counts as repeat of Crm Jst 291 with same topic.  
Last Taught: Spring 2018.  
Current Offerings: http://uwm.edu/schedule

CRM JST 305 Crime and Criminal Justice Policy  
3 cr. Undergraduate.  
Examination of criminal justice policy through analysis of relevant theory, research findings, and implications.  
Prerequisites: Crm Jst 110(P).  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

CRM JST 310 Race, Ethnicity, and Justice  
3 cr. Undergraduate.  
Issues of race and ethnicity in the criminal justice system. Emphasis on research examining social construction of race and ethnicity.  
Prerequisites: none.  
Course Rules: Counts as repeat of Crm Jst 291 with same topic.  
Current Offerings: http://uwm.edu/schedule

CRM JST 311 Field Experience Practicum  
3-6 cr. Undergraduate.  
Placement in a faculty unit or project in a criminal justice setting, either public or private. Minimum 120 hours per semester under supervision.  
Prerequisites: jr st; Crm Jst 110(P); writ cons instr. Regis priority for students admitted to Crm Jst major.  
Course Rules: May be retaken to 6 cr max.  
Current Offerings: http://uwm.edu/schedule

CRM JST 340 Policing the Streets  
3 cr. Undergraduate.  
Analysis of policing from the perspective of the front line police officer, including societal expectations, legality, use of force, discretion, and psychological aspects.  
Prerequisites: none  
Course Rules: Counts as repeat of Crm Jst 291 w/same topic.  
Current Offerings: http://uwm.edu/schedule

CRM JST 350 White Collar Crime  
3 cr. Undergraduate.  
The nature and extent of white collar drime in the United States, especially the harmful and criminal acts of the rich and powerful  
Prerequisites: none.  
Current Offerings: http://uwm.edu/schedule

CRM JST 370 Criminal Justice Administration  
3 cr. Undergraduate.  
Analysis of operational and administrative issues in criminal justice drawn from organizational theory, management theory, discussion of organizational technology, structure, environment; and organizational assessment.  
Prerequisites: jr st; Crm Jst 110(P).  
Last Taught: Fall 2014, Fall 2013, Spring 2008, Fall 2006.  
Current Offerings: http://uwm.edu/schedule

CRM JST 380 Victimology  
3 cr. Undergraduate.  
An overview of conceptual and substantive issues in victim centered theory and research, including past, present and future models of victim participation in criminal justice.  
Prerequisites: jr st; Crm Jst 110(P).  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

CRM JST 385 Women and Criminal Justice  
3 cr. Undergraduate.  
A study of female crime and delinquency, and how the criminal justice system responds to female crime.  
Prerequisites: none.  
Current Offerings: http://uwm.edu/schedule

CRM JST 386 Criminal Intelligence  
3 cr. Undergraduate.  
Contemporary responses to police problems, the tenets of various police styles and tactical crime analysis.  
Prerequisites: Crm Jst 110(P).  
Course Rules: Counts as repeat of Crm Jst 592 with same subtitle.  
Current Offerings: http://uwm.edu/schedule

CRM JST 410 Comparative Criminal Justice  
3 cr. Undergraduate.  
Comparative study of criminal justice components of selected countries. Emphasis will be on cultural influences on the principles and operation of criminal justice systems.  
Prerequisites: jr st or cons instr.  
General Education Requirements: SS  
Last Taught: Fall 2017, Fall 2016, Spring 2013, Spring 2012.  
Current Offerings: http://uwm.edu/schedule
CRM JST 416 Domestic Violence Research
3 cr. Undergraduate.
An examination of the criminal justice response to domestic violence related incidents. Theoretical and practical issues are explored in the context of physical child abuse, spousal battering, and elder abuse.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

CRM JST 420 Violence and the Criminal Justice System
3 cr. Undergraduate.
Historical and contemporary study of violent crime and its relationship to the criminal justice system.
Prerequisites: jr st; Crm Jst 110(P) & 150(P).
General Education Requirements: SS
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

CRM JST 421 Cybercrime
3 cr. Undergraduate/Graduate.
Legal issues associated with cybercrimes, including response, investigation and prosecution.
Prerequisites: jr st.
Course Rules: Counts as repeat of Crm Jst 592/970 with same topic.
Current Offerings: http://uwm.edu/schedule

CRM JST 430 Punishment
3 cr. Undergraduate.
Critical examination of theoretical justifications of punishment, corresponding sentencing structures, and recent empirical evidence addressing the utilitarian aims of punishment. Seminar.
Prerequisites: jr st or cons instr.
General Education Requirements: SS
Last Taught: Fall 2016, Spring 2014, Fall 2003, Fall 2002.
Current Offerings: http://uwm.edu/schedule

CRM JST 460 The Federal System: The FBI, Courts and Corrections
3 cr. Undergraduate.
Aspects of the federal criminal justice system; how law enforcement, courts, and corrections at the federal level are organized as well as special topics within these areas.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

CRM JST 480 Criminal Evidence and Investigation
3 cr. Undergraduate.
Examination of the criminal investigation process with emphasis on theory of investigation, role of criminal evidence, and effectiveness of the process.
Prerequisites: Crm Jst 110(P).
Current Offerings: http://uwm.edu/schedule

CRM JST 481 Criminalistics
3 cr. Undergraduate.
Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.
Prerequisites: jr st; admis to Forensic Sci cert program; Crm Jst/Anthro/Chem/BMS(C L Sci) 281(P); Crm Jst 480(P).
Course Rules: Anthro 481, Chem 481, BMS(C L Sci) 481, and Crm Jst 481 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

CRM JST 490 Drugs, Crime and Criminal Justice
3 cr. Undergraduate/Graduate.
Overviews illicit drug use, the relationship between drugs and crime, and responses of criminal justice agencies to illegal drug use.
Prerequisites: jr st.
Course Rules: Counts as repeat of Crm Jst 592/970 w/same topic.
Current Offerings: http://uwm.edu/schedule

CRM JST 497 Study Abroad:
1-6 cr. Undergraduate/Graduate.
Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

CRM JST 510 Introduction to Crime Analysis
3 cr. Undergraduate.
Introduction to crime analysis and crime mapping. Examines techniques, theory, data collection methods, statistics used, history of and career opportunities in crime analysis.
Prerequisites: Crm Jst 110(P).
Course Rules: Counts as repeat of Crm Jst 592 w/same topic.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CRM JST 520 Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS
3 cr. Undergraduate/Graduate.
Examines theories and applications to analyze data. Approaches include crime mapping and spatial analysis; strategic, administrative, and tactical crime analysis. Other methods are also covered.
Prerequisites: jr st; Crm Jst 110(P).
Current Offerings: http://uwm.edu/schedule

CRM JST 530 Data Driven Policing Strategies and Police Intelligence
3 cr. Undergraduate.
Examines data driven policing strategies and police intelligence. Approaches covered include: Problem-oriented Policing (POP), Smart Policing, Intelligence-led Policing, and Place-based Policing.
Prerequisites: Crm Jst 110(P).
Current Offerings: http://uwm.edu/schedule
CRM JST 585 Internship in Forensic Toxicology
1-3 cr. Undergraduate.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver. Course Rules: Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 585 are jointly offered; they count as repeats of one another.
Last Taught: Spring 2002.
Current Offerings: http://uwm.edu/schedule

CRM JST 589 Internship in Death Investigation
1-3 cr. Undergraduate.
Prerequisites: jr st; admis to Forensic Sci cert prog; Crm Jst/Anthro/Chem/BMS(C L Sci) 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver. Course Rules: Anthro 589, Chem 589, BMS(C L Sci) 589 & Crm Jst 589 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

CRM JST 591 Senior Thesis
1-3 cr. Undergraduate. Thesis written under supervision.
Prerequisites: sr st, 2.5 GPA; wrt cons instr & dept. Last Taught: Summer 1991.
Current Offerings: http://uwm.edu/schedule

CRM JST 592 Critical Issues in Criminal Justice
1-3 cr. Undergraduate.
Current Offerings: http://uwm.edu/schedule

CRM JST 594 Internship in Forensic Science
1-3 cr. Undergraduate.
Prerequisites: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver. Course Rules: Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

CRM JST 599 Independent Reading
1-3 cr. Undergraduate.
Prerequisites: sr st; wrt cons instr & coord; gpa 2.5 or above. Course Rules: May be retaken to max of 6 cr.
Last Taught: Summer 2016, Fall 2015, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

CRM JST 662 Methods of Social Welfare Research
3 cr. Undergraduate.
Prerequisites: jr st. Course Rules: May be retaken to max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CRM JST 663 Criminal Justice Capstone Seminar
3 cr. Undergraduate.
Prerequisites: jr st.; completion of OWC-A GER. Course Rules: May be retaken to max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

CRM JST 671 Juvenile Justice
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Crm Jst 110 (P). Course Rules: May be retaken to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

CRM JST 680 Jails
3 cr. Undergraduate/Graduate.
Prerequisites: jr st; Crm Jst 110 (P). Course Rules: May be retaken to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

CRM JST 713 Measuring Crime & Analyzing Crime Data
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CRM JST 716 Advanced Analytic Techniques for Crime Analysts
3 cr. Graduate.
Prerequisites: grad st; Crm Jst 520(P), Crm Jst 713(P), Crm Jst 716(P)
Current Offerings: http://uwm.edu/schedule

CRM JST 743 Proseminar: Administration of Criminal Justice Systems
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CRM JST 743 Proseminar: Administration of Criminal Justice Systems
3 cr. Graduate.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule
CRM JST 756 Proseminar: Analysis of Criminal Justice Research
3 cr. Graduate.
A study of the application of social science research methods to criminal justice issues.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CRM JST 773 Perspectives on Crime and the Criminal Justice System
2-3 cr. Graduate.
An in-depth analysis of the etiology of criminal behavior; processes of becoming a criminal; patterns of criminal behavior; and policy and individual consequences of decriminalization.
Prerequisites: grad st.
Course Rules: Not open to students who have cr in Soc Wrk 773, which is identical to Crm Jst 773.
Current Offerings: http://uwm.edu/schedule

CRM JST 775 Race, Crime and Criminal Justice
3 cr. Graduate.
A study of crime and criminal justice issues as they impact major racial groups such as Blacks, American Indians, and Hispanics
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CRM JST 783 Data Mining and Predictive Modeling for Crime Analytics
3 cr. Graduate.
Explores data mining and predictive analytics for crime analysts. Theoretical and practical applications of these techniques are explained.
Prerequisites: grad st.
Last Taught: Spring 2018.
Current Offerings: http://uwm.edu/schedule

CRM JST 795 Issues in Law Enforcement Practice and Policy
3 cr. Graduate.
An examination of police practice in a democratic society from an operational, legal, and sociological perspective
Prerequisites: grad st.
Last Taught: Fall 2017, Spring 2016, Spring 2015, Fall 2013.
Current Offerings: http://uwm.edu/schedule

CRM JST 810 Police Administration
3 cr. Graduate.
An application of management principles to the police organization.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CRM JST 820 Police and the Multicultural Community
3 cr. Graduate.
A study of the critical issues facing police officers and administrators in relation to policing a diverse society, with particular emphasis on training leadership, minorities and women police officers, and police - community relations.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

CRM JST 830 Intervention Strategies for Correctional Clients
3 cr. Graduate.
A review and analysis of intervention approaches and programs used with correctional clients, both juvenile and adult, with emphasis on diversion, prevention, and rehabilitation strategies.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2014, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

CRM JST 840 Philosophical Foundations of Policing
3 cr. Graduate.
An in-depth analysis of the social theory of policing. The most significant theoretical and empirical works on policing are examined.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

CRM JST 850 Issues in Correctional Practice and Policy
3 cr. Graduate.
Overview of significant issues facing corrections, including sentencing, life imprisonment, violence and victimization in prison, supermax, evidence-based practices, and parole revocation.
Prerequisites: grad st
Last Taught: Fall 2016.
Current Offerings: http://uwm.edu/schedule

CRM JST 910 Methods and Practice Capstone for Crime Analysts
3 cr. Graduate.
Seminar in use of crime analysis techniques and synthesis of prior empirical research using crime analysis techniques.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

CRM JST 920 Criminal Justice Masters Capstone Seminar
3 cr. Graduate.
Seminar involving synthesis and integration of degree coursework on criminal justice theories, empirical research and program creation and implementation.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

CRM JST 970 Readings in Criminal Justice Research
3 cr. Graduate.
Variable content research oriented course involving systematic analysis and investigation of criminal justice topics.
Prerequisites: grad st; cons instr.
Course Rules: May be retaken to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

CRM JST 990 Thesis or Research Project
1-3 cr. Graduate.
Prerequisites: grad st; writ cons instr & coord grad prog.
Course Rules: May be repeated once for cr.
Current Offerings: http://uwm.edu/schedule
Crime Analysis, Undergraduate Certificate

The Department of Criminal Justice offers a specialization and a post-baccalaureate certificate in Crime Analysis. Crime analysts gather crime and disorder data, identify and analyze patterns, trends and problems, develop recommendations based on their findings, and create and disseminate information that helps criminal justice agencies address crime and allocate resources.

A sequence of courses will lead to a specialization in this growing area. Preparation includes a foundation in criminal justice and research methods; specialized coursework in crime analysis, analysis-oriented technology, and data-driven policing; and field placement in an agency setting with practicing professionals.

Requirements

Course of Study: Specialization in Crime Analysis

The specialization in Crime Analysis is designed for students completing their major in Criminal Justice and consists of 18 credits, with the following courses (or equivalents) required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
<td>3</td>
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<tr>
<td>or INFOST 120</td>
<td>Information Technology Ethics</td>
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<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 510</td>
<td>Introduction to Crime Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 530</td>
<td>Data Driven Policing Strategies and Police Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 311</td>
<td>Field Experience Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

Students must complete all coursework within the sequence. A minimum of 15 credits must be taken in residence at UWM.

Course of Study: Certificate in Crime Analysis

The Certificate in Crime Analysis is designed for students who already have a bachelor’s degree in any field and consists of 21 credits, with the following courses (or equivalents) required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 110</td>
<td>Introduction to Information Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>or INFOST 120</td>
<td>Information Technology Ethics</td>
<td></td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 510</td>
<td>Introduction to Crime Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 530</td>
<td>Data Driven Policing Strategies and Police Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 311</td>
<td>Field Experience Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 21

Students must complete all coursework within the sequence. A minimum of 15 credits must be taken in residence at UWM.

Contact Information

Criminal Justice Department
Enderis Hall, 1110
2400 E Hartford Ave.

Phone: 414-229-4852
freiburg@uwm.edu

http://uwm.edu/socialwelfare/academics/crime-analytics/

Criminal Justice, MS: Crime Analytics

The Department of Criminal Justice offers a Crime Analytics Concentration at the master’s level. A sequence of courses will lead to a concentration in this growing area. Preparation includes a foundation in criminal justice, research methods, and criminological theory. It also includes specialized coursework in measuring crime, crime mapping,
and analytic techniques for understanding crime and crime patterns. At
the conclusion of the program, students will complete a crime analytics
project to demonstrate their mastery of crime analytics.

Students entering the Concentration in Crime Analytics choose one of the
two tracks:

- Crime Analytics Track
- Advance Crime Analytics Track

General Degree Information
The School of Social Welfare offers a master's program of study in
criminal justice. The program is designed to educate students for
leadership positions in the field of criminal justice. The program also
provides a strong foundation for students anticipating advanced study
at the doctoral level. The curriculum is also designed to prepare Criminal
Justice professionals to understand all aspects of criminal justice policy.
Legal, organizational, political and behavioral frameworks are used
to analyze the operation of the criminal justice system. Students are
introduced to advanced knowledge on the nature and causes of crime,
the justification and means of social control, the administration of the
justice system, and the evaluation of criminal justice programs.

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://
uw.edu/graduateschool/program-deadlines), call the Registrar's Office
at (414) 229-3800 or submit a contact form (http://uw.edu/registrar/
contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uw.edu/
graduateschool/admission) plus these program requirements to be
considered for admission:

- Undergraduate degree, from an accredited university, in criminal
  justice, a related social science or other relevant educational
  experience.
- Undergraduate cumulative grade point average (GPA) of 3.00.
  (Applicants are advised that all coursework from all previous
  institutions will be included in this calculation. If coursework was
  repeated for credit, each attempt will also be included.)
- In addition, applicants with an undergraduate cumulative GPA
  between 2.75-2.99 may also be considered for admission but must
  also submit satisfactory scores on the verbal and quantitative
  sections of either the Graduate Record Examination (http://uw.edu/
  graduateschool/admission/#gre) (GRE) or the Miller Analogies Test
  (MAT).
- Two letters of recommendation from persons who are familiar with
  the applicant's academic record.
- It is recommended that applicants have completed a research
  methods course and a statistics course at the undergraduate level
  prior to beginning the program.

Application
Application must be made to the Graduate School. Applicants may be
admitted to the program for Fall, Spring or Summer (note graduate course
offerings may be limited in the summer session.) For further information
regarding the application process, please contact the Criminal Justice
Department office at (414) 229-2392.

Credits and Courses
The Master of Science in Criminal Justice consists of a minimum of 33
graduate credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 713</td>
<td>Measuring Crime &amp; Analyzing Crime Data</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 773</td>
<td>Perspectives on Crime and the Criminal Justice System</td>
<td>2-3</td>
</tr>
<tr>
<td>CRM JST 920</td>
<td>Criminal Justice Masters Capstone Seminar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select an additional 12 credits of Criminal Justice Electives</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Select an additional 6 credit hours taken elsewhere in the School of Social Welfare or in other UWM departments with the prior consent of advisor.</td>
<td>6</td>
</tr>
</tbody>
</table>

The student must pursue either Option A: Essay Option, or Capstone Option B: Non-Essay Option described below.

Option A: Essay Option
Students must complete the required prosemitters and, as part of the
33 graduate credits required, must complete 3 credits of research and a
graduate-level statistics course approved by the student's faculty advisor.
Students planning to go into doctoral programs are strongly encouraged
to pursue the essay option.

Essay
An acceptable essay must be written on the student's area of
concentration.

Comprehensive Examination
The student must pass a final oral examination in defense of the essay.

Option B: Non-Essay Option
Students must complete the 33 graduate credits required, including the
three prosemitters and the criminal justice capstone seminar course.

Crime Analytics Track
Students who complete the Crime Analytics Track will be prepared to
enter into crime analysis positions in law enforcement and in other
criminal justice organizations. To complete this track, students will take
the following series of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 713</td>
<td>Measuring Crime &amp; Analyzing Crime Data</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 716</td>
<td>Advanced Analytic Techniques for Crime Analysts</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 795</td>
<td>Issues in Law Enforcement Practice and Policy</td>
<td>3</td>
</tr>
</tbody>
</table>
  or CRM JST 850 | Issues in Correctional Practice and Policy                  | 3       |
Students who complete the Crime Analytics track will also be required to complete the requirements of the Master’s in Criminal Justice, for a total of 33 credits. Students who completed CRM JST 520 at the undergraduate level can have another course substituted for CRM JST 520 with the permission of the department chair. Students who take CRM JST 910 will not need to take CRM JST 920. Students must receive a B or better in all the listed required courses in order to have the concentration posted on their transcripts.

Advanced Crime Analytics Track

The Advanced Crime Analytics track will be intensive in research methods and advanced statistical analysis. Students who complete the advanced track with be prepared for jobs as advanced analyst, to work with big data, and to conduct advanced predictive modeling. To complete this track, students will take the following series of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 713</td>
<td>Measuring Crime &amp; Analyzing Crime Data</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 716</td>
<td>Advanced Analytic Techniques for Crime Analysts</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 795</td>
<td>Issues in Law Enforcement Practice and Policy</td>
<td>3</td>
</tr>
<tr>
<td>or CRM JST 850</td>
<td>Issues in Correctional Practice and Policy</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 962</td>
<td>Applied Multiple Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 963</td>
<td>Measurement Methods and Related Multivariate Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 783</td>
<td>Data Mining and Predictive Modeling for Crime Analytics</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 910</td>
<td>Methods and Practice Capstone for Crime Analysts</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 24

Students who complete the Advanced Crime Analysts track will also be required to complete the requirements of the Master’s in Criminal Justice, for a total of 36 completed credits. Students who completed CRM JST 520 at the undergraduate level can have another course substituted for CRM JST 520 with the permission of the department chair. Students who take CRM JST 910 will not need to take CRM JST 920. Students must receive a B or better in all the listed required courses in order to have the concentration posted on their transcripts.

Program Requirements

Major Professor as Advisor

The student must have a faculty advisor to advise and supervise the student’s studies as specified in Graduate School regulations. At the time of admission, the Graduate Program Director will assign each student to a faculty advisor. Students who begin to work closely with a particular faculty member with expertise in their area of interest may request that this faculty member serve as their advisor. Students who pursue the Essay Option must choose a faculty member to serve as their major professor.

Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

Criminal Justice, BS

Study in the field of criminal justice examines the component parts of criminal justice – police, courts, and corrections – and seeks to gain an understanding of the interdependencies among them. Courses emphasize the role of criminal justice agencies in society, particularly in relation to the impact of alternative criminal justice policies on society and social problems. The program prepares students as generalists in criminal justice and is well suited for those who want to pursue graduate work in criminal justice, law, public administration, and the social sciences.

Thousands of our graduates have gone on to careers with the public sector, private sector and non-profit organizations, including jobs such as FBI agent, intelligence analyst, police officer, evidence technician, border patrol agent, computer security expert, probation officer, customs inspector, and private investigator.

Requirements

Criminal justice intended majors spend their first two years building a liberal arts foundation and fulfilling proficiency requirements. Freshmen and sophomores may begin to take courses offered in the Helen Bader School of Social Welfare.

The major in criminal justice requires a minimum of 36 credits in criminal justice courses, and 27 credits in social science courses, for a minimum of 63 credits for the major. The Department requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work, to meet graduation requirements.

General Curriculum Requirements: Social Work and Criminal Justice

For courses that satisfy the distribution requirements in humanities, natural science, and social science, see the GER listing in the current Timetable (http://www4.uwm.edu/schedule). The UWM General Education Requirements (p. 33) apply to all students who were not enrolled in an accredited institution prior to 1986.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Curriculum Requirements (p. 1900)</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>Major Requirements (p. 1901)</td>
<td>63</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

English

Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.

Mathematics

Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.

Liberal Arts Foundation

Arts
Select 3 credits of General Education-approved arts course in the history, philosophy, theory, or practice of the creative and interpretive arts

Foreign Language
Completion of two years of high school-level instruction in a single foreign language, or satisfactory completion of at least two semesters of a single foreign language, or approved demonstration of foreign language ability

Humanities
COMMUN 103 Public Speaking 3
Select 9 credits of General Education-approved humanities courses

Natural Science
Select 6 credits of General Education-approved natural science courses to include a lab or field course

United States History and Institutions
Select Option 1: History 151 and 152 or Option 2: one 400 level U.S. history course plus one additional course listed below.

Option 1:
HIST 151 American History: 1607 to 1877
& HIST 152 American History: 1877 to the Present

Option 2:
HIST 4XX 400 level U.S. History Course
and one of the following:
ECON 100 Introductory Economics
ECON 103 Principles of Microeconomics
POL SCI 104 Introduction to American Government and Politics
POL SCI 105 State Politics
POL SCI 385 American Political Thought
POL SCI 405 State Government:
POL SCI 411 Constitutional Law: Government Powers and Federalism
POL SCI 412 Constitutional Law: Civil Rights and Liberties
POL SCI 471 Problems in Law Studies:
SOCIO 200 Contemporary American Society

Total Credits 27

Fieldwork
Fieldwork is not required, but highly recommended.

Undergraduate Academic Advising
The Office of Student Services in the Helen Bader School of Social Welfare, located in Enderis Hall Room 1110, offers undergraduate student academic advising from professional advisors who are familiar with the Social Work and Criminal Justice curriculum, College requirements, and university policies. Advisors can also provide information on scholarship opportunities, tutoring, and student organizations that align with a student’s interests.

These advisors provide services such as new freshman orientation, course selection, assistance with registration, and review of transfer credit. Students are assigned to a permanent professional advisor upon admittance into the Helen Bader School of Social Welfare and are encouraged to meet with their academic advisor at least once each semester. Please call (414) 229-4852 to schedule an appointment or for more information.
Transfer Students

The Helen Bader School of Social Welfare welcomes students from other academic areas on the UWM campus and students transferring to UWM from other institutions. Students planning to transfer into either major from another institution should meet with an academic advisor as soon as they are admitted and the transfer credit evaluation process has been completed. During this meeting, the student and advisor will review transfer course equivalencies, discuss program requirements, and create an academic plan for coming semesters. Students may meet with their advisor in person or by phone. Please call (414) 229-4852 to schedule an appointment or for more information.

Honors in the Major

Honors in the Major are granted to students who have earned a GPA of 3.500 or above in major courses, including social science credits completed at UWM.

Honors in the School of Architecture and Urban Planning

Dean's Honor List

GPA of 3.750 or above (Levels 1, 2), earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

Honors Degree and Honors Degree with Thesis

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information

Office of Student Services
Enderis Hall, 1110
2400 E Hartford Ave.

Phone: 414-229-4852
hbssw@uwm.edu

Criminal Justice, Minor

Students interested in a minor in criminal justice can pursue one of two tracks:

- Standard Track
- Crime Analysis Track

Requirements

Standard Track

The standard minor track requires a minimum of 18 credits in criminal justice courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 271</td>
<td>Police Process</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 273</td>
<td>Correctional Process</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 275</td>
<td>Criminal Court Process</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 6 credits in courses at the 300 level or above

Total Credits: 18

Credits earned in CRM JST 311 and CRM JST 599 do not count toward the minimum number of credits required for the standard minor track.

Crime Analysis Track

The crime analysis minor track consists of 18 credits, with the following courses (or equivalents approved by the department chairperson) required:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 510</td>
<td>Introduction to Crime Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 520</td>
<td>Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 530</td>
<td>Data Driven Policing Strategies and Police Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 311</td>
<td>Field Experience Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 18

A minimum of 15 credits must be taken in residence at UWM.

Criminal Justice, MS

The School of Social Welfare offers a master's program of study in criminal justice. The program is designed to educate students for leadership positions in the field of criminal justice. The program also provides a strong foundation for students anticipating advanced study at the doctoral level. The curriculum is also designed to prepare Criminal Justice professionals to understand all aspects of criminal justice policy. Legal, organizational, political and behavioral frameworks are used to analyze the operation of the criminal justice system. Students are introduced to advanced knowledge on the nature and causes of crime, the justification and means of social control, the administration of the justice system, and the evaluation of criminal justice programs.

Requirements

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office.
at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
An applicant must meet Graduate School requirements (http://uwm.edu/graduateschool/admission) plus these program requirements to be considered for admission:

- Undergraduate degree, from an accredited university, in criminal justice, a related social science or other relevant educational experience.
- Undergraduate cumulative grade point average (GPA) of 3.00. (Applicants are advised that all coursework from all previous institutions will be included in this calculation. If coursework was repeated for credit, each attempt will also be included.)
- In addition, applicants with an undergraduate cumulative GPA between 2.75-2.99 may also be considered for admission but must also submit satisfactory scores on the verbal and quantitative sections of either the Graduate Record Examination (http://uwm.edu/graduateschool/admission/#gre) (GRE) or the Miller Analogies Test (MAT).
- Two letters of recommendation from persons who are familiar with the applicant’s academic record.
- It is recommended that applicants have completed a research methods course and a statistics course at the undergraduate level prior to beginning the program.

Application
Application must be made to the Graduate School. Applicants may be admitted to the program for Fall, Spring or Summer (note graduate course offerings may be limited in the summer session.) For further information regarding the application process, please contact the Criminal Justice Department office at (414) 229-2392.

Credits and Courses
The Master of Science in Criminal Justice consists of a minimum of 33 graduate credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses taken within the Criminal Justice program</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>Must include 15 credits of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRM JST 713</td>
<td>Measuring Crime &amp; Analyzing Crime Data</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 773</td>
<td>Perspectives on Crime and the Criminal Justice System</td>
<td>2-3</td>
</tr>
<tr>
<td>CRM JST 920</td>
<td>Criminal Justice Masters Capstone Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Select an additional 12 credits of Criminal Justice Electives (4 courses)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select an additional 6 credit hours taken elsewhere in the School of Social Welfare or in other UWM departments with the prior consent of advisor.</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

The student must pursue either Option A: Essay Option, or Capstone Option B: Non-Essay Option described below.

Option A: Essay Option
Students must complete the required proseminars and, as part of the 33 graduate credits required, must complete 3 credits of research and a graduate-level statistics course approved by the student’s faculty advisor. Students planning to go into doctoral programs are strongly encouraged to pursue the essay option.

Essay
An acceptable essay must be written on the student’s area of concentration.

Comprehensive Examination
The student must pass a final oral examination in defense of the essay.

Option B: Non-Essay Option
Students must complete the 33 graduate credits required, including the three proseminars and the criminal justice capstone seminar course.

Program Requirements

Major Professor as Advisor
The student must have a faculty advisor to advise and supervise the student’s studies as specified in Graduate School regulations. At the time of admission, the Graduate Program Director will assign each student to a faculty advisor. Students who begin to work closely with a particular faculty member with expertise in their area of interest may request that this faculty member serve as their advisor. Students who pursue the Essay Option must choose a faculty member to serve as their major professor.

Time Limit
The student must complete all degree requirements within seven years of initial enrollment.

Criminal Justice, MS/Public Administration, MPA
Both departments collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice.

Requirements

Admission Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice and the MPA program.

Credits and Courses
Students accepted into this MS/MPA program complete the following courses:
Criminal Justice, MS/Social Work, MSW

M.S. in Criminal Justice

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 773</td>
<td>Perspectives on Crime and the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 12 additional credits within the criminal justice program 12
Select 12 additional credits with the consent of the student’s advisor 12

Total Credits 33

Master of Public Administration

Students entering the MPA program will be placed, at the discretion of the MPA Director in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A and 42 for Track B.

Track A

Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have PUB ADM 921 waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

Track B

Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 738</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 763</td>
<td>Scope and Dynamics of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 769</td>
<td>Analyzing and Evaluating Public Policies and Programs</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>PUB ADM 792</td>
<td>Decision-Making for Nonprofit and Public Organizations</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 737</td>
<td>Managerial Decisions and Negotiations</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUB ADM 959</td>
<td>Capstone Seminar in Public Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

General Public Administration

Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSMGMT 724</td>
<td>Accounting for Nonprofit Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 42

1. Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

2. An internship is mandatory for students with no public sector work experience.

Total Degree Credits for Master of Public Administration: 48-51 cr

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

Program Requirements

Time Limit

Students in the coordinated MS/MPA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Criminal Justice, MS/Social Work, MSW

Both departments in the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice, or social work with a focus on criminal justice (e.g., corrections, juvenile justice, probation and parole, etc).

Requirements

Admission Requirements

Application Deadlines

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.
Admission
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice and the MSW program in the Helen Bader School of Social Welfare.

Credit and Courses
Students accepted into this MS/MSW program complete the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 773</td>
<td>Perspectives on Crime and the Criminal Justice System (G)</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems (G)</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research (G)</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional credit hours of courses within the criminal justice program</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 12 credit hours of Social Work courses with the consent of the student’s advisor</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Students must complete the requirements of the Essay Option or Non-Essay Option as the degree capstone</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Social Work Foundation Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 604</td>
<td>Social Systems and Social Work Practice (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 662</td>
<td>Methods of Social Welfare Research (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 665</td>
<td>Cultural Diversity and Social Work (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 708</td>
<td>Social Work Methods I: Individuals and Families (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 709</td>
<td>Social Work Methods II: Groups, Organizations and Communities (G)</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 750</td>
<td>Social Welfare Policy Development and Implementation (G)</td>
<td>2</td>
</tr>
</tbody>
</table>

Social Work Advanced Practice Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
<td>4</td>
</tr>
<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
<td>4</td>
</tr>
<tr>
<td>Select one of the following options:</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Option 1:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK 711</td>
<td>Direct Social Work Practice I</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 811</td>
<td>Direct Social Work Practice II</td>
<td></td>
</tr>
<tr>
<td>Select one additional practice course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option 2:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK 713</td>
<td>Community Organization, Planning and Human Service Administration I</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 915</td>
<td>Human Services Administration II</td>
<td></td>
</tr>
<tr>
<td>SOP WRK 911</td>
<td>Direct Social Work Practice II</td>
<td></td>
</tr>
<tr>
<td>Select one additional practice course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC WRK 793</td>
<td>Evaluation of Practice</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 794</td>
<td>Evaluation of Programs</td>
<td>2</td>
</tr>
</tbody>
</table>

Concentration

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 851</td>
<td>Social Issue and Policy Analysis: 2</td>
<td>2</td>
</tr>
<tr>
<td>Select one of the following (depending on area of concentration):</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 685</td>
<td>Social Gerontology</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 771</td>
<td>Development of the Family Over the Life Span</td>
<td></td>
</tr>
</tbody>
</table>

Electives

| Select 6 credits of electives 3 | 6 |

Total Credits 89

1 The capstone requirement is satisfied by SOC WRK 822.
2 Requires sections to be selected from within the specialized concentration area.
3 Electives selected from among successfully completed CJ courses in consultation with faculty advisor.

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. Degrees will be awarded simultaneously.

Program Requirements

Time Limit
Students in the coordinated MS/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Death Investigation, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility
Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and
provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>BMS 610 or HCA 212</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 404</td>
<td>Seminar in Human Evolutionary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
</tbody>
</table>

Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the certificate program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
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<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403 or ANTHRO 404</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>
The programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

**Requirements**
To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 285</td>
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<td>3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar: (with forensic subtitile)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Credits** 21

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
<tbody>
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<td>3</td>
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<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 585</td>
<td>Internship in Forensic Toxicology</td>
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<tr>
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<td>Internship in Death Investigation</td>
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<tr>
<td>ANTHRO/BMS/CHEM/CRM JST 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar: (with forensic subtitile)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Credits** 21

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters and Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

**Eligibility**
Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational
**Army ROTC**

UW-Milwaukee students have the opportunity to participate in the Army Reserve Officers Training Corps (AROTC) at Marquette University. The AROTC program provides university students with leadership, management, technical, and tactical skills that will enable them to start their journey as commissioned officers in the United States Army, Army Reserve, or Army National Guard.

Army ROTC is not a major field of study. It is a program in which students pursue a baccalaureate degree of their choice and take AROTC courses in military-oriented subject matter. AROTC provides a general knowledge of the contemporary role of the Army in support of national objectives and a practicum in management and leadership skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program offers competitive two-, three-, and four-year scholarships to qualified students. Currently, the scholarships offered for UWM students cover full tuition and fees or room and board, $1,200 a year for books, and a $300-$500 monthly stipend.

**General Eligibility**

To be eligible for an AROTC scholarship, students must:

- Be a United States citizen;
- Be a full-time student;
- Have no major civil convictions;
- Not be a conscientious objector;
- Be medically qualified;
- Have a minimum 2.5 GPA; and
- Have a minimum ACT score of 19 or SAT score of 950.

The Army ROTC program is divided into two parts: the basic course (freshman and sophomore years) and the advanced course (junior and senior years). The freshman year course currently is being offered at UWM; the remainder of the courses are offered at Marquette University. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

**Basic Course**

In the basic course, cadets learn basic military skills and receive the foundation for leadership and management skills that are expanded during the advanced course. The basic course is open to all full-time UWM students without any obligation to the Army.

**Advanced Course**

During the advanced course, cadets learn more extensive leadership and management skills, and they are placed into various leadership positions in the battalion. Cadets also develop skills and attributes that are essential for all commissioned officers in the U.S. Army.

In addition to completing the military science courses, advanced-course students are required to attend the Advanced Leadership Course at Fort Lewis, Washington, during the summer between the junior and senior years. During this five-week camp, cadets are expected to apply all of the skills that they have learned in the AROTC program. In addition, cadets are offered the opportunity to compete for a chance to attend Airborne School, Air Assault School, or Cadet Troop Leadership Training (CTLT).

CTLT is an “internship” in which cadets have a chance to see what a Second Lieutenant does on an active duty Army post.

To qualify for the Advanced Course, students must accomplish one of the following:

- Complete the two years of the basic course;
- Attend the Basic Leaders Course, a six-week camp at Fort Knox, Kentucky; or
- Complete U.S. Army Basic Training or its equivalent.

**Field Exercises**

Once a semester, all of the cadets in the program go to Fort McCoy, Wisconsin, to practice all of the skills that they have learned. Advanced course cadets also are given the opportunity to improve their leadership skills by being placed in various leadership positions leading other cadets.

**Physical Training**

Three times a week, cadets are required to attend physical training (PT). During PT, cadets do physical activities such as push-ups, sit-ups, and running. PT currently is conducted at both UWM and Marquette University.

For more information about enrolling in the Army ROTC program, contact army-rotc@uwm.edu or the Department of Military Science at Marquette University, (414) 288-7195, or www.marquette.edu/rotc/army (http://www.marquette.edu/rotc/army).

**Air Force ROTC**

UW students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four- and three-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course.

**General Eligibility**

- Be a full-time student;
- Be a United States citizen (for scholarship appointment);
- Be in good physical condition;
- Be of good moral character;
- For pilot or navigator training, fulfill all commissioning requirements before age 29;
- For scholarship recipients, fulfill all commissioning requirements before age 31; and
- For non-scholarship students, fulfill all commissioning requirements before age 31.

**General Military Course**

The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks
and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

**Field Training**

AFROTC Field Training is offered during the summer months at Maxwell Air Force Base, Alabama, and provides leadership and officer training in a structured military environment. Major areas of study include physical training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

**Professional Officer Course**

The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a non-taxable subsistence allowance per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

**Leadership Lab**

Leadership Lab is a cadet-centered activity. It is largely cadet-planned and -directed, in line with the premise that it provides leadership training experience that will improve a cadet’s ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information, and other services that will increase the performance and motivation of other cadets.

**AFROTC College Scholarship and High School Scholarship Programs**

While participating in AFROTC, scholarship students receive a stipend per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:

- Be a U.S. citizen;
- Be at least 17 years of age on the date of enrollment and under 31 years of age on December 31 of the estimated year of commissioning;
- Pass an Air Force physical exam;
- Be selected by a board of Air Force officers;
- Have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious objectors);
- Maintain a 2.5 grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year. Information on Air Force ROTC and applications for Air Force scholarships are available at www.AFROTC.com (http://www.afrotc.com). Scholarship applications will not be accepted after December 1 of the year before entering college.

For more information, contact the Department of Aerospace Studies at Marquette University, (414) 288-7682.

**Naval ROTC**

The Naval Science Department at Marquette University administers the Naval Reserve Officers Training Corps (NROTC) program. Graduates who complete all requirements will receive reserve commissions and serve on active duty in the Navy or Marine Corps with a minimum three-year commitment for non-scholarship students and five-year commitment for scholarship students.

**Scholarships**

NROTC offers two-, three-, and four-year scholarships to qualified applicants. Four-year scholarships are awarded on a national level to qualified high school applicants (visit www.nrotc.navy.mil (http://www.nrotc.navy.mil) for more information and to apply). Two- and three-year scholarships are awarded to students who have completed at least one, but not more than four, terms of college while a member of the NROTC Unit. Two-year scholarships for students who are entering their junior year and have not previously been enrolled in the NROTC program also are available.

Students entering UWM with a four-year scholarship, earned on a competitive basis while still in high school, will receive full tuition, fees, laboratory expenses, a stipend for books, and a subsistence allowance of $250 to $400 per month, depending on class year. Necessary uniforms and textbooks for required Naval Science courses are issued as well.

**General Eligibility**

- Be a U.S. citizen;
- Not less than 17 years old by Sept. 1 of year starting college, and no more than 23 on June 30 of that year;
- Be of good moral character;
- Be a high school graduate;
- Be 27 or younger by June 30 of the year you will graduate;
- Be physically qualified by Navy/Marine Corps standards; and
- Achieve qualifying scores on the SAT or ACT

**ACT:** 22 verbal, 22 math (22 composite for Marine Corps)

**SAT:** 530 verbal, 520 math (1000 composite for Marine Corps).

Students not on scholarship can still participate in the NROTC College Program. They receive uniforms and Naval Science textbooks, and $350 and $400 per month during their junior and senior years, respectively. All College Program students are eligible to compete for Naval Education and Training Command scholarships. Students are selected on a competitive basis after completing at least one term as an NROTC College Program student. Selection boards meet semiannually in March and June to consider students based on their most recent term. Students may receive scholarship benefits for three or two academic years. Once selected, the students receive the same benefits and incur the same active duty requirements as students in the four-year scholarship program.

The Naval Science Department teaches Naval Science courses and supervises a midshipman-run drill program that instills leadership skills and professional development in all members of the midshipman battalion. All midshipmen are required to register for and participate in the midshipman-run drill program.
in this two-hour weekly drill period, which occurs at the Marquette University Gymnasium. One Naval Science class each term is also required, with the exception of Nurse Corps and Marine Corps Options. Students enrolled in the program from UWM attend Naval Science classes at Marquette as “cross-town” students, while the rest of their major is completed on the UWM campus. Midshipmen on scholarship or in advanced-standing status also are required to attend a four- to six-week training period each summer. This summer training introduces midshipmen to the fleet and to the life of a junior Naval Officer. The summer training period also provides an orientation to each of the different warfare specialties available upon graduation (aviation, surface, submarine, and the Marine Corps).

All Navy Option scholarship students are required to complete one year of calculus by the end of their sophomore year, and one year of calculus-based physics by the end of their junior year. Navy Option college program students must complete one year each in mathematics and physical science. One course on World Cultural Awareness, one year of English, and either an American Military History or National Security Policy course also are required for all NROTC students.

All scholarships are awarded on the basis of merit and personal qualifications. Neither a Parents’ Confidential Financial Statement nor a standard FAF is required for consideration for Naval ROTC scholarships.

For more information, contact the Department of Naval Science at Marquette University, (414) 288-7076, or visit our website at [www.marquette.edu/rotc/navy](http://www.marquette.edu/rotc/navy).

### Air Force & Aerospace Studies Courses

**AFAS 101 Foundations of the United States Air Force 1**
3 cr. Undergraduate.
Introduction to communication skills and the US Air Force. Overview of the basic characteristics, missions, and organization.
Prerequisites: none.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AFAS 102 Foundations of the United States Air Force 2**
1 cr. Undergraduate.
Continuation of AFAS 101.
Prerequisites: none.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AFAS 201 Evolution of the Air Force/Air and Space Power 1**
1 cr. Undergraduate.
Air Force heritage and leaders; introduction to air and space power; and continued application of communication skills.
Prerequisites: none.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**AFAS 202 Evolution of the Air Force/Air and Space Power 2**
3 cr. Undergraduate.
Continuation of AFAS 201.
Prerequisites: none.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

### Military Science Courses

**MIL SCI 101 Military Physical Training and Conditioning I**
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**MIL SCI 102 Military Physical Training and Conditioning II**
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 101(P) or cons instr.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**MIL SCI 110 Leadership and Personal Development**
1 cr. Undergraduate.
Personal challenges and competencies that are critical for effective leadership and the structure of the ROTC.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)

**MIL SCI 120 Introduction to Leadership**
1 cr. Undergraduate.
Issues and competencies that are central to a commissioned officer’s responsibilities.
Prerequisites: Mil Sci 110(P) or cons instr.
Current Offerings: [http://uwm.edu/schedule](http://uwm.edu/schedule)
MIL SCI 201 Military Physical Training and Conditioning III
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 102(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MIL SCI 202 Military Physical Training and Conditioning IV
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 201(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

MIL SCI 210 Foundations of Leadership
2 cr. Undergraduate.
The dimensions of creative and innovative tactical leadership strategies and styles.
Prerequisites: Mil Sci 120(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MIL SCI 220 Foundations of Tactical Leadership
2 cr. Undergraduate.
The challenges of leading teams in the complex operational environment.
Prerequisites: Mil Sci 210(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

MIL SCI 301 Military Physical Training and Conditioning V
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 202(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MIL SCI 302 Military Physical Training and Conditioning VI
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 301(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

MIL SCI 310 Adaptive Team Leadership
3 cr. Undergraduate.
The study, practice and application of Army leadership in team or squad situations.
Prerequisites: Mil Sci 220(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MIL SCI 320 Applied Team Leadership
3 cr. Undergraduate.
The study and practice of small unit tactics at the team and squad level.
Prerequisites: Mil Sci 310(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

MIL SCI 401 Military Physical Training and Conditioning VII
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 302(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MIL SCI 402 Military Physical Training and Conditioning VIII
1 cr. Undergraduate.
Goal-oriented, small unit approach to physical conditioning and military drill.
Prerequisites: Mil Sci 401(P) or cons instr.
Current Offerings: http://uwm.edu/schedule

MIL SCI 410 Adaptive Leadership
2 cr. Undergraduate.
Methods of training, mentoring and evaluating subordinate personnel.
Prerequisites: Mil Sci 320(P) or cons instr.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

MIL SCI 420 Leadership in a Complex World
2 cr. Undergraduate.
Differences in customs and courtesies, military law, principles of war, COIN, and Rules of Engagement in the face of persistent conflict.
Prerequisites: Mil Sci 410(P) or cons instr.
Current Offerings: http://uwm.edu/schedule
SOCIAL WORK

Study in the field of social work examines social problems from multiple perspectives and encourages change among individuals, families, groups, organizations and communities. Social work practitioners work in child welfare, gerontology, mental and physical health, and community leadership. This program partners with hundreds of agencies to prepare graduates with hands-on field experience.

Programs

- Applied Data Analysis Using SAS, Graduate Certificate (p. 1919)
- Applied Gerontology, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1920)
- Social Welfare, PhD (p. 1921)
- Social Work, BS (p. 1924)
- Social Work, MSW (p. 1926)
- Social Work, MSW/Criminal Justice, MS (p. 1928)
- Social Work, MSW/Social Welfare, PhD (p. 1929)
- Social Work, MSW/Women's and Gender Studies, MA (p. 1932)
- Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1933)
- Youth Work, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 1934)

Social Work Courses

SOC WRK 100 Introduction to Social Work
3 cr. Undergraduate.
A survey course focused on the development of human service institutions and occupations.
Prerequisites: none.
Current Offerings: http://uwm.edu/schedule

SOC WRK 105 Orientation for Social Welfare Students
1 cr. Undergraduate.
Prepares students to participate in UWM’s educational process and to explore career choices in social welfare.
Prerequisites: fr st only.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOC WRK 112 Field Observation
1 cr. Undergraduate.
Introduction to the services of a social welfare setting through placement in an approved social service, health, law enforcement, or recreational setting. Minimum of 3 hours per week.
Prerequisites: soph st.
Current Offerings: http://uwm.edu/schedule

SOC WRK 206 Introduction to Social Welfare Policy
3 cr. Undergraduate.
An analysis of the relationships between poverty, welfare programs, and the society which creates and sustains them; the origins, structures, and goals of welfare programs.
Prerequisites: soph st.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SOC WRK 250 Human Behavior and the Social Environment
3 cr. Undergraduate.
A survey course in normative development from conception through aging. Focus on the interaction between biological, psychological, social, and cultural forces.
Prerequisites: soph st; Soc Wrk 100(P) or Psych 101(C).
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SOC WRK 291 Current Issues in Social Welfare and Social Work:
1-3 cr. Undergraduate.
Selected current issues in Social Welfare and Social Work.
Prerequisites: none.
Course Rules: May be retaken with change in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 297 Study Abroad:
1-12 cr. Undergraduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: acceptance for Study Abroad Prog.
Course Rules: May be retaken with change in topic.
Current Offerings: http://uwm.edu/schedule

SOC WRK 300 Aged to Perfection: Introduction to the Study of Aging
3 cr. Undergraduate.
Interdisciplinary survey on aging.
Prerequisites: Satisfaction of OWC- Part A GER.
General Education Requirements: OWCB, SS
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

SOC WRK 310 Social Work Methods I
3 cr. Undergraduate.
Introduction to generic Social Work practice methods. Course also provides experiential exercises designed to provide students with basic interviewing skills.
Prerequisites: jr st; Soc Wrk 100(P), 250(P), & SW 206(C); satisfaction of OWC-A GER.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
SOC WRK 410 Social Work Methods II
3 cr. Undergraduate.
Introduction to social work methods as applied to small groups. Lab provides experiential exercises in group interactions, needs, and leadership roles.
Prerequisites: jr st; admis to Soc Wrk major; satisfaction of OWC-A GER; Soc Wrk 310(P); 421(C).
General Education Requirements: OWC
Current Offerings: http://uwm.edu/schedule

SOC WRK 421 Field Education & Integrated Field Seminar I
5 cr. Undergraduate.
1st of two consecutive semester practicum, and weekly field seminar which provides an opportunity to develop and demonstrate social work skills. 256 hours per semester.
Prerequisites: 
Current Offerings: http://uwm.edu/schedule

SOC WRK 422 Field Education & Integrated Seminar II
5 cr. Undergraduate.
(Second of a two semester required sequence). Continuation of Soc Wrk 421.
Prerequisites: Grade of B or better in Soc Wrk 410(P) and Soc Wrk 421(P); 427(C).
Current Offerings: http://uwm.edu/schedule

SOC WRK 423 Field Education III
5 cr. Undergraduate.
(Elective field course). Continuation of Soc Wrk 421 & 422.
Prerequisites: sr st; Soc Wrk 422(P), 427(P); cons Field Office.
Last Taught: Spring 2018, Fall 2014, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

SOC WRK 427 Social Work Methods III
3 cr. Undergraduate.
Introduction to social work methods as applied to community problems. Lab provides experiential exercises in community organization and other techniques of social change.
Prerequisites: grade of B or better in Soc Wrk 410(P) & Soc Wrk 421 (P); Soc Wrk 422(C).
Current Offerings: http://uwm.edu/schedule

SOC WRK 497 Study Abroad:
1-6 cr. Undergraduate/Graduate.
Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 562 Child and Family Services
2 cr. Undergraduate/Graduate.
Introduction to child and family welfare services, including methods for assessing needs, existing treatment techniques, and institutional support systems.
Prerequisites: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SOC WRK 564 Social Services for the Aging
2 cr. Undergraduate/Graduate.
Individual and societal implications of the aging process, with an emphasis upon current resources and programs for the elderly.
Prerequisites: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SOC WRK 580 An Overview of Child/Youth Care
3 cr. Undergraduate/Graduate.
Survey of skills, theories and approaches of the youth work field. Emphasis on relationship-building, interactive and developmental approaches in a variety of settings.
Prerequisites: jr st or cons instr.
Course Rules: Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SOC WRK 581 Youth Work Practice
3 cr. Undergraduate/Graduate.
Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.
Prerequisites: jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.
Course Rules: Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.
Current Offerings: http://uwm.edu/schedule

SOC WRK 591 Special Topics: Social Welfare and Social Work:
1-3 cr. Undergraduate.
Selected topics in social welfare and social work. Specific credits and additional prerequisites announced in Schedule of Classes whenever course is offered.
Prerequisites: jr st; satisfy English competency; one prior course in Soc Wrk recom.
Course Rules: May be retaken w/chg in topic to max of 6 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
SOC WRK 592 Independent Research
1-3 cr. Undergraduate.
Participation in an independent research project under faculty supervision.
Prerequisites: jr st; satisfy English competency; GER math requirement; 2.5 gpa; Soc Wrk 662(P), writ cons instr & dir Soc Wrk prog.
Course Rules: May be retaken to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 599 Independent Reading
1-3 cr. Undergraduate.
Intensive readings in fields related to student's preparation and training, under the supervision of a faculty member.
Prerequisites: sr st; satisfy English competency; 2.5 gpa; writ cons instr & dir Soc Wrk Prog.
Course Rules: May be retaken to 6 cr max.
Current Offerings: http://uwm.edu/schedule

SOC WRK 604 Social Systems and Social Work Practice
3 cr. Undergraduate/Graduate.
Analysis of organizations, community and social institutions and the impact they have on human behavior and how they provide the social context of social work practice.
Prerequisites: jr st; one prior course in Soc Wrk recom.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOC WRK 630 Families and Poverty
2-3 cr. Undergraduate/Graduate.
Description of families in poverty and analysis of historical and contemporary national and state policies aimed at reducing poverty.
Prerequisites: jr st; one prior course in Soc Wrk recom.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOC WRK 650 Social Welfare and the Law
2 cr. Undergraduate/Graduate.
Collaborative principles of social work and the legal profession. Selected concepts and principles of legal and social provision for protection of family, children and adults.
Prerequisites: jr st, one prior course in Soc Wrk recom; or grad st.
Last Taught: Fall 2015, Fall 2014, Fall 2013, Fall 2012.
Current Offerings: http://uwm.edu/schedule

SOC WRK 662 Methods of Social Welfare Research
3 cr. Undergraduate/Graduate.
Analyze methods of social welfare research and problems in project design and programming. Characteristics of investigations directed to planning, administrative, practice, and scientific objectives.
Prerequisites: jr st, admis to Soc Wrk major, satisfaction of QL-A GER, Soc Wrk 100(P), 206(P), & 250(P); or grad st.
General Education Requirements: QLB
Current Offerings: http://uwm.edu/schedule

SOC WRK 665 Cultural Diversity and Social Work
3 cr. Undergraduate/Graduate.
Emphasis on culture, race and ethnicity, theories of prejudice, and racial minority groups, and the politics of human services in multicultural society.
Prerequisites: jr st, admis to Soc Wrk major, satisfy English competency, Soc Wrk 100(P), 206(P), 250(350)(P); or grad st.
General Education Requirements: CD, SS
Current Offerings: http://uwm.edu/schedule

SOC WRK 680 Death and Dying
3 cr. Undergraduate/Graduate.
Focus on multiple perspectives on death, dying, and bereavement; roles and skills for social workers and other helpers about end-of-life issues.
Prerequisites: jr st; or grad st.
Course Rules: Counts as repeat of Soc Wrk 591 & 791 with same topic.
Current Offerings: http://uwm.edu/schedule

SOC WRK 685 Social Gerontology
3 cr. Undergraduate/Graduate.
Exploration of individual aging experiences and interaction with social structures and social systems.
Prerequisites: jr st and one prior course in Soc Wrk recom; or grad st.
Course Rules: Counts as repeat of Soc Wrk 591 & 791 with the same topic.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOC WRK 691 Practice Methods in Social Work:
1-3 cr. Undergraduate/Graduate.
Topics focused on Social Work practice methods. Specific topics and credits to be announced in Schedule of Classes.
Prerequisites: jr st.
Course Rules: May be retaken with change in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 705 Individual Behavior and Social Welfare
3 cr. Graduate.
The development and behavior of individuals in interaction with their social contexts; implications for social welfare.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SOC WRK 708 Social Work Methods I: Individuals and Families
3 cr. Graduate.
Introduction to generalist social work practice with individuals and families, with emphasis on integration of theory and knowledge with professional practice.
Prerequisites: grad st; admis to MSW
Last Taught: Fall 2017, Summer 2017, Fall 2016, Summer 2016.
Current Offerings: http://uwm.edu/schedule
SOC WRK 709 Social Work Methods II: Groups, Organizations and Communities
2 cr. Graduate.
Introduction to generalist social work practice with groups, organizations and communities, with emphasis on integration of theory and knowledge with professional practice.
Prerequisites: grad st; admis to MSW; Soc Wrk 708(C)
Current Offerings: http://uwm.edu/schedule

SOC WRK 711 Direct Social Work Practice I
3 cr. Graduate.
Methods of social work intervention employed in helping individuals, families and small groups. Addresses personal, interpersonal, environmental and resource issues with emphasis on interviewing, assessing, contracting and goal setting.
Prerequisites: grad st; Soc Wrk 710(P), or BSW degree, or Soc Wrk 708(P) & 709(P); Soc Wrk 722(C).
Current Offerings: http://uwm.edu/schedule

SOC WRK 713 Community Organization, Planning and Human Service Administration I
3 cr. Graduate.
Knowledge and skill development in the activities, roles, styles, and ethical issues in community and administrative practice. Emphasis on needs assessment, planning methodologies, and change efforts.
Prerequisites: grad st; Soc Wrk 708 & 709(710) or BSW degree.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOC WRK 718 Introduction to SAS Programming
3 cr. Graduate.
Fundamental instruction in programming, data management and exploratory data analysis using SAS software.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

SOC WRK 719 Advanced SAS Programming
3 cr. Graduate.
Advanced instruction in programming, data management, and exploratory data analysis using SAS software.
Prerequisites: grad st; Soc Wrk 718(P) or cons instr
Current Offerings: http://uwm.edu/schedule

SOC WRK 721 Field Instruction I
3 cr. Graduate.
Supervised social work practice in a social agency.
Prerequisites: grad st; Soc Wrk 710(P) or 708(P); 709(C) or 711(C).
Current Offerings: http://uwm.edu/schedule

SOC WRK 722 Field Instruction II
3 cr. Graduate.
Supervised social work practice in a social agency.
Prerequisites: grad st; Soc Wrk 721(P) or BSW degree; Soc Wrk 713(C) or 711(C).
Current Offerings: http://uwm.edu/schedule

SOC WRK 750 Social Welfare Policy Development and Implementation
2 cr. Graduate.
Examination of policy development, implementation, and models of analysis that describe and provide analytical guides for determining the efficacy of public policy in addressing human needs.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SOC WRK 753 Adult Psychopathology
3 cr. Graduate.
Mental disorders and their implications for the social work profession, including assessment, intervention and prevention issues.
Prerequisites: grad st; Soc Wrk 705(P).
Current Offerings: http://uwm.edu/schedule

SOC WRK 754 Child and Adolescent Psychopathology
2 cr. Graduate.
Mental and behavioral disorders of children and adolescents and their implications for the social work profession, including assessment, intervention and prevention issues.
Prerequisites: grad st; Soc Wrk 705.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SOC WRK 765 Social Work Boundaries and Ethics in Professional Practice
2-3 cr. Graduate.
Ethical issues faced by social work practitioners in professional practice. Topics include NASW Code of Ethics, boundary issues, ethical dilemmas, and risk management.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SOC WRK 771 Development of the Family Over the Life Span
3 cr. Graduate.
The family as a social system as it engages in various developmental tasks throughout the life cycle and in interaction with the social context; social work implications of relevant theories and research.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SOC WRK 774 Trauma Counseling I: Theory and Research
3 cr. Graduate.
Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.
Prerequisites: grad st
Course Rules: Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule
SOC WRK 775 Trauma Counseling II: Diagnosis and Treatment
3 cr. Graduate.
Seminar on diagnosis and assessment instruments as well as
intervention and therapeutic techniques used to address trauma issues in
counseling acute and chronic traumatized clients.
Prerequisites: grad st; Couns 774, Nurs 774, OccThpy 774, or Soc Wrk 774(P), or cons instr
Course Rules: Couns 775, Nurs 775, OccThpy 775, and Soc Wrk 775 are
jointly offered; they count as repeats of one another.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

SOC WRK 791 Current Topics in Social Work:
1-3 cr. Graduate.
Variable content course with specific topics to be announced in schedule
of classes.
Prerequisites: grad st.
Course Rules: May be repeated with change in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 793 Evaluation of Practice
2 cr. Graduate.
Advanced problems and methods of research in social work practice.
Prerequisites: grad st; Soc Wrk 662(P) or equiv; Soc Wrk 721(C) or 722(C).
Current Offerings: http://uwm.edu/schedule

SOC WRK 794 Evaluation of Programs
2 cr. Graduate.
Provides students with the skills and knowledge base necessary to
understand the program evaluation process as it applies to social welfare
programs.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SOC WRK 811 Direct Social Work Practice II:
3 cr. Graduate.
A continuation of methods of social work intervention, with sections
tailored to specialized concentration areas: gerontology, family and child
welfare, and behavioral and physical health. Emphasis is on selection and
implementation of appropriate intervention plans.
Prerequisites: grad st; Soc Wrk 711(P); 722(C).
Current Offerings: http://uwm.edu/schedule

SOC WRK 813 Financial Management and Planning in Human Services
2 cr. Graduate.
This course is designed to facilitate and understanding of selected areas
of planning and management in human services with an emphasis on
resource development and financial management.
Prerequisites: grad st; Soc Wrk 713(C) & 915(C) or cons reg; cons instr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 818 Treatment of Co-Occurring Disorders
3 cr. Graduate.
Knowledge on assessment and treatment strategies with substance
misuse and mental health issues, along with research on etiology and
best practices for addressing co-occurring disorders.
Prerequisites: grad st; Soc Wrk 711(P) or 713(P)
Current Offerings: http://uwm.edu/schedule

SOC WRK 819 Social and Environmental Justice in Public Health
3 cr. Graduate.
Social and environmental justice perspective on public health problems
and concerns.
Prerequisites: grad st.
Course Rules: Jointly offered w/ & counts as a repeat of PH 819.
Current Offerings: http://uwm.edu/schedule

SOC WRK 820 Seminar in Social Work Practice:
2 cr. Graduate.
Critical examination of varied and specialized methodologies with
emphasis on new professional directions, interdisciplinary coordination
and integration of professional practice with behavioral sciences,
research, and policy concerns.
Prerequisites: grad st; Soc Wrk 711(P) or 713(P)
Course Rules: May be repeated with change in topic to max of 6 cr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 821 Field Instruction III
4 cr. Graduate.
Second-year supervised social work practice in a social agency.
Prerequisites: grad st; Soc Wrk 811(C) or 915(C); 722(P); 711(P) or
713(P).
Current Offerings: http://uwm.edu/schedule

SOC WRK 822 Field Instruction IV
4 cr. Graduate.
Advanced second-year supervised social work practice in a social agency
with emphasis on integration of professional practice with methodology,
behavioral sciences, research and policy concerns.
Prerequisites: grad st; Soc Wrk 821(P).
Current Offerings: http://uwm.edu/schedule

SOC WRK 830 Intervention Strategies for Correctional Clients
3 cr. Graduate.
A review and analysis of intervention approaches and programs used
with correctional clients, both juvenile and adult, with emphasis on
diversion, prevention, and rehabilitation strategies.
Prerequisites: grad st.
Current Offerings: http://uwm.edu/schedule

SOC WRK 831 Models of Family Therapy
2 cr. Graduate.
Introduction to the major family therapy approaches, including
assessment and intervention techniques for each. Models include
systemic, structural, strategic, interactional and multigenerational.
Prerequisites: grad st; Soc Wrk 811 or conc reg.
Last Taught: Fall 2013, Fall 2012, Fall 2011, Fall 2010.
Current Offerings: http://uwm.edu/schedule

SOC WRK 832 Social Work Practice with Couples
2 cr. Graduate.
Intensive examination of varied methodologies to effect therapeutic
change in couples. Includes assessing couples' interactional patterns
and formulating therapeutic strategies.
Prerequisites: grad st; Soc Wrk 811 or conc reg; cons instr.
Current Offerings: http://uwm.edu/schedule
SOC WRK 851 Social Issue and Policy Analysis
2-3 cr. Graduate.
Advanced level analysis of the relationship between selected problem areas, policy development and service system.
Prerequisites: grad st; Soc Wrk 750(P) or BSW degree.
Course Rules: May be repeated with change in topic to max of 9 cr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirement.
Prerequisites: grad st.
Course Rules: Fee for 1 cr assessed.
Current Offerings: http://uwm.edu/schedule

SOC WRK 901 Philosophy of Science
3 cr. Graduate.
Analyzes philosophical foundations of science, knowledge building processes, and the scope and nature of knowledge, emphasizing applications for the social and behavioral sciences.
Prerequisites: grad st; admis to the Soc Wrk Ph.D. program or written cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2013, Fall 2011.
Current Offerings: http://uwm.edu/schedule

SOC WRK 915 Human Services Administration II
3 cr. Graduate.
The role of the professional in the human services administrative organization, focusing on interpersonal relationships in supervision, evaluation and leadership.
Prerequisites: grad st; Soc Wrk 713; 722 or conc reg.
Current Offerings: http://uwm.edu/schedule

SOC WRK 921 Field Instruction V
3-4 cr. Graduate.
Optional advanced supervised social work practice in a social agency.
Prerequisites: grad st; Soc Wrk 822.
Current Offerings: http://uwm.edu/schedule

SOC WRK 931 Theories of Poverty and Social Welfare Policy
3 cr. Graduate.
Analyzes anti-poverty policies/programs, populations at risk, poverty dynamics, poverty-rate trends, circumstances of the poor, poverty etiology and government roles in income redistribution and social change.
Prerequisites: grad st; admis to the Social Work Ph.D. program or written cons instr
Current Offerings: http://uwm.edu/schedule

SOC WRK 932 Theories and Research on Behavior Change
3 cr. Graduate.
Theory and research of individual change from a social work perspective using classic to recent models, with application to diverse populations.
Prerequisites: grad st; admis to the Soc Wrk Ph.D. program or written cons instr.
Last Taught: Fall 2014, Fall 2012, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

SOC WRK 940 Applied Gerontology Capstone I
2 cr. Graduate.
Professional socialization seminar emphasizing the interdisciplinary nature of gerontology and exposing students to professional and library resources for continuing professional development.
Prerequisites: grad st; Soc Wrk 940 and Soc Wrk 942 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2010, Fall 2009, Fall 2008, Fall 2007.
Current Offerings: http://uwm.edu/schedule

SOC WRK 941 Applied Gerontology Capstone II
2-3 cr. Graduate.
Teamwork applied research project conducted in collaboration with a community-based organization that serves the elderly; presentation of findings to a professional audience.
Prerequisites: grad st; Sociol 942 & Soc Wrk 942 are jointly offered; they count as repeats of one another. Students who intend to prepare a manuscript for publication enroll for 3 crs; all others enroll for 2 crs.
Current Offerings: http://uwm.edu/schedule

SOC WRK 942 The Family and Long-Term Care
3 cr. Graduate.
Seminar on the role of family in providing long term care. Social values, public policies, and consequences for individuals and society.
Prerequisites: grad st.
Course Rules: Sociol 942 & Soc Wrk 942 are jointly offered; they count as repeats of one another.
Current Offerings: http://uwm.edu/schedule

SOC WRK 945 Family and Long-Term Care Across the Life Course
3 cr. Graduate.
Seminar on the family role in the provision of long term care within the context of kinship care, and care of persons with chronic illnesses, developmental and adult disabilities.
Prerequisites: grad st; admis to the Soc Wrk Ph.D. prog or writ cons instr.
Last Taught: Spring 2013, Spring 2011, Fall 2008.
Current Offerings: http://uwm.edu/schedule

SOC WRK 951 Quantitative Research Methods
3 cr. Graduate.
An in-depth, hands-on review of experimental, quasi-experimental, and non-experimental approaches to the design and implementation of quantitative research studies.
Prerequisites: grad st; admis to the Social Work Ph.D. Program or written cons instr
Current Offerings: http://uwm.edu/schedule

SOC WRK 952 Qualitative Research Methods in Social Work
3 cr. Graduate.
Seminar on the philosophical and methodological issues of qualitative research. Students will conduct exploratory original field research and produce a research proposal based on their findings.
Prerequisites: grad st; admis to the Soc Wrk Ph.D. prog or writ cons instr.
Current Offerings: http://uwm.edu/schedule
SOC WRK 961 Introduction to Statistical Methods
4 cr. Graduate.
Reviews basic parametric and nonparametric tests, including descriptive
statistics, correlation, basic inferential statistics, one- and two-way
ANOVA, OLS regression, nonparametric statistics, and handling missing
data.
Prerequisites: grad st; admis to the Social Work Ph.D. program or written
cons instr
Last Taught: Fall 2017, Fall 2016, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

SOC WRK 962 Applied Multiple Regression Analysis
3 cr. Graduate.
Multiple regression analysis concentrating on OLS regression techniques
but also covering logistic and Poisson regression.
Prerequisites: grad st; admis to the Social Work Ph.D. program or written
cons instr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 963 Measurement Methods and Related Multivariate Statistics
3 cr. Graduate.
Survey of concepts and applications of Classical True Score and Item
Response Theory and multivariate statistical methods relevant to test
evaluation and construction.
Prerequisites: grad st; SocWrk 961(P) & 962(P); admis to the Soc Wrk
Ph.D. program or written cons instr.
Last Taught: Fall 2017, Fall 2015, Fall 2014, Fall 2009.
Current Offerings: http://uwm.edu/schedule

SOC WRK 964 Advanced Statistical Methods
3 cr. Graduate.
Covers multivariate statistical procedures, including MANOVA,
MANCOVA, canonical correlation and discriminant function analysis,
Poisson regression, survival analysis, multilevel modeling, and analysis of
longitudinal data.
Prerequisites: grad st; admis to the Soc Wrk Ph.D. program or written
cons instr.
Current Offerings: http://uwm.edu/schedule

SOC WRK 970 Independent Research
1-4 cr. Graduate.
Participation in an independent research project under faculty
supervision.
Prerequisites: grad st; cons instr; Soc Wrk 662(P)
Course Rules: Students shall not take more than 6 cr total between
courses Soc Wrk 970(P) & 999(P).
Last Taught: Summer 2017, Fall 2015, Fall 2014, Summer 2014.
Current Offerings: http://uwm.edu/schedule

SOC WRK 990 Doctoral Research
1-12 cr. Graduate.
Research connected with dissertation.
Prerequisites: grad st. & admis to candidacy for Ph.D. degree.
Current Offerings: http://uwm.edu/schedule

SOC WRK 991 Doctoral Proseminar:
1 cr. Graduate.
Variable content course with specific topics to be announced in schedule
of classes.
Prerequisites: grad st; admis to the Social Work Ph.D. Program or written
cons instr
Course Rules: May be repeated with change in topic to 6 cr max.
Last Taught: Fall 2017, Spring 2017, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

SOC WRK 999 Independent Reading in Social Work
1-3 cr. Graduate.
Work suited to individual graduate students arranged.
Prerequisites: grad st; completion of foundation courses for non-BSW
students; writ cons instr & dir of Soc Wrk prog.
Course Rules: Students shall not take more than 6 cr total between
courses Soc Wrk 970(P) & 999(P).
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johanna Bartei</td>
<td>Clinical Assistant Prof.</td>
<td>MSW</td>
<td>University of Wisconsin - Madison</td>
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<tr>
<td>Lisa Berger</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Joan Blakey</td>
<td>Assistant Prof.</td>
<td>PhD</td>
<td>University of Chicago</td>
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<tr>
<td>Michael Brondino</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>University of South Carolina</td>
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<tr>
<td>Roberta Hanus</td>
<td>Clinical Associate Prof.</td>
<td>MSW</td>
<td>University of California, Berkeley</td>
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<tr>
<td>Colleen Janczewski</td>
<td>Assistant Professors</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Melinda Kavanaugh</td>
<td>Assistant Prof.</td>
<td>PhD</td>
<td>University of Wisconsin - Madison</td>
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</tr>
<tr>
<td>Yura Lee</td>
<td>Assistant Prof.</td>
<td>PhD</td>
<td>University of Southern California</td>
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<tr>
<td>Gwat-Yong Lie</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>University of Wisconsin - Madison</td>
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</tr>
<tr>
<td>Margaret Mailet</td>
<td>Senior Lecturer</td>
<td>PhD</td>
<td>Louisiana State University</td>
<td></td>
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</tr>
<tr>
<td>Katie Mangan</td>
<td>Clinical Associate Prof.</td>
<td>MSW</td>
<td>University of Wisconsin - Milwaukee</td>
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<tr>
<td>Steve McMurtry</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Wisconsin - Madison</td>
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<tr>
<td>Joshua Mersky</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>University of Wisconsin - Madison</td>
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<tr>
<td>Laura Otto-Salaj</td>
<td>Associate Prof.</td>
<td>PhD</td>
<td>Temple University</td>
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</tbody>
</table>
Applied Data Analysis Using SAS, Graduate Certificate

The Graduate Certificate in Applied Data Analysis Using SAS® is a multidisciplinary program that fosters knowledge and programmatic skills in data management and statistical analysis using SAS software. The certificate’s curriculum is designed for students with diverse career goals, but at its core, it focuses on the job roles of SAS Programmer, Data Analyst, and Data Scientist. A person in one of these roles typically accesses and manages data, performs complex queries, and conducts and interprets statistical data analyses. Upon completion of the certificate program, students will not only earn the SAS-sponsored joint certificate from UWM, but they will also be prepared to take two globally recognized Programming Certification exams either through the SAS Institute or on-site at UWM:

- Base SAS Programming Certificate
- Advanced SAS Programming Certificate

Students are required to take a total of 18 credits toward the completion of the certificate. The mandatory core courses in programming and regression analysis make up 12 credits (6 credits fixed, 6 credits flexible) and an additional 6 credits are to be taken as electives. The program’s curriculum stimulates interdisciplinary skill acquisition and research by requiring students to enroll in courses from at least two academic units. Students can choose courses from Business Administration, Business Management, Economics, Educational Psychology, Political Science, Public Health, Social Work, and Sociology to satisfy the certificate’s credit requirements.

Post-baccalaureate students will be interested in this certificate program because it provides a valuable skill set without pursuing a full graduate degree. Graduate and post-graduate students will find this certificate program appealing as it complements many existing degree programs at UWM and should give graduates a competitive edge on the job market.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students must have earned a bachelor’s degree with a minimum cumulative grade point average (GPA) of 2.75 to be able to apply for the certificate program. Students who already hold a graduate degree must have earned that degree with a minimum cumulative GPA of 3.00 when applying for the certificate program.

Credits and Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Required Core</td>
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<tr>
<td>SOC WRK 718</td>
<td>Introduction to SAS Programming</td>
<td>3</td>
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<tr>
<td>SOC WRK 719</td>
<td>Advanced SAS Programming</td>
<td>3</td>
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<tr>
<td>Flexible Core</td>
<td>6</td>
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<tr>
<td>BUS ADM 714</td>
<td>Multivariate Techniques in Management Research</td>
<td></td>
</tr>
<tr>
<td>BUSMGMT 709</td>
<td>Predictive Analytics for Managers</td>
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<tr>
<td>ECON 703</td>
<td>Econometrics</td>
<td></td>
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<tr>
<td>ECON 710</td>
<td>Applied Econometrics</td>
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<tr>
<td>ED PSY 724</td>
<td>Educational Statistical Methods II</td>
<td></td>
</tr>
<tr>
<td>PH 702</td>
<td>Introduction to Biostatistics</td>
<td></td>
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<tr>
<td>PH 707</td>
<td>Introduction to Statistical Computing</td>
<td></td>
</tr>
<tr>
<td>PH 711</td>
<td>Intermediate Biostatistics</td>
<td></td>
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<tr>
<td>POL SCI 701</td>
<td>Techniques of Political Science Research</td>
<td></td>
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<tr>
<td>POL SCI 702</td>
<td>Advanced Techniques of Political Science Research</td>
<td></td>
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<tr>
<td>SOC WRK 961</td>
<td>Introduction to Statistical Methods</td>
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<tr>
<td>SOC WRK 962</td>
<td>Applied Multiple Regression Analysis</td>
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</tr>
</tbody>
</table>

Electives

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUS ADM 713</td>
<td>Business Forecasting Methods</td>
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<tr>
<td>BUS ADM 762</td>
<td>Marketing Research</td>
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<tr>
<td>ECON 709</td>
<td>Industrial Organization II</td>
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<td>ED PSY 825</td>
<td>Multivariate Methods</td>
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<tr>
<td>ED PSY 826</td>
<td>Analysis of Cross-Classified Categorical Data</td>
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</tbody>
</table>
Applied Gerontology, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work)

The Graduate Certificate in Applied Gerontology is designed to provide students with the knowledge and skills needed to successfully pursue or advance careers within aging services organizations or academic research in aging.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
• Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
• All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
• Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
• Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Credits and Courses
Students wishing to earn a Graduate Certificate in Applied Gerontology must complete 18 graduate credit hours. No student may complete all 18 credits within a single school or college.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>NURS 760</td>
<td>Processes of Aging</td>
<td>3</td>
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<tr>
<td>SOC WRK 851</td>
<td>Social Issue and Policy Analysis: (with the subtitle “Age and Community: Policy to Practice”)</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Choice Core</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>AD LDSP 547</td>
<td>The Educational Dimensions of Practice with Older Adults</td>
<td></td>
</tr>
<tr>
<td>PSYCH 680</td>
<td>Psychology of Aging</td>
<td></td>
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<tr>
<td>SOC WRK 685</td>
<td>Social Gerontology</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 791</td>
<td>Current Topics in Social Work: (Death and Dying – Aging section only)</td>
<td></td>
</tr>
</tbody>
</table>

Certificate Requirements
Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. Transfer courses must have been completed within the last 3 years with grades of B or higher. Students must provide evidence that the transfer courses are substantially the same as the core or elective courses. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   • Degree programs must approve the courses from certificates that can double count toward the degree.
   • All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
• 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
• 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Additional elective courses can be chosen with prior consent of the program committee.
Theatre 699 Independent Study: (Creativity in Health Settings (3 credits))

Electives
Select 6 credits¹ 6

Total Credits 18

¹ Students will work with the Certificate Coordinator to approve the selection of additional electives, including a "Practicum" in the student's home department or area of choice.

Integrative Portfolio
Students must complete an Integrative Portfolio as a final project under the guidance of the Certificate Coordinator and an assigned advisor. This Portfolio includes papers/materials from core courses and an introduction and reflective conclusion that integrates the key concepts from the interdisciplinary coursework and identifies potential impact on their future practice in research or aging services.

Certificate Requirements

Transfer Credit
No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

Grade Point Average Requirement
A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

Articulation with Degree Programs
1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
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   • Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

Time Limit
Certificate program time limits shall be established as follows:
   • 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
   • 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

Social Welfare, PhD
Related Certificates
- Applied Gerontology (http://uwm.edu/graduateschool/applied-gerontology-certificate)
- Non-Profit Management (http://uwm.edu/graduateschool/nonprofit-management-certificate)
- Trauma-Informed Care (http://uwm.edu/graduateschool/trauma-informed-care-certificate)
- Women's Studies (http://uwm.edu/graduateschool/womens-studies-certificate)

State of Wisconsin Credentials
- School Social Work Certification (http://uwm.edu/socialwelfare/academics/school-social-work)
- Substance Abuse Certification (http://uwm.edu/socialwelfare/academics/substance-abuse-certification-sac)

Overview
The Helen Bader School of Social Welfare (HBSSW) offers a program of graduate studies in social work. As a department in an urban research university, the mission of the Department of Social Work is to promote positive change through social work research, scholarship, education, and community partnerships. The Department promotes the values of the social work profession through a commitment to social justice and diversity, a dedication to public service, and an emphasis on individual and community well-being. The goal of the MSW program is to prepare graduates with specialized knowledge and skills for advanced practice and leadership with diverse populations and communities.

In furtherance of its mission, the goals of the Social Work Department are:

1. To educate students to become highly skilled, culturally competent, and ethical social workers and to provide leadership for the practice of social justice.
2. To create and disseminate knowledge leading to social work and inter-disciplinary innovations.
3. To engage in research and apply results that inform social work policy, practice, advocacy, education, and future research.
4. To collaborate with community partners in promoting evidence-informed practice, educational and research partnerships, and social and economic justice.

HBSSW offers students access to the University computer system, special interview training rooms, and specialized audiovisual materials.

The MSW curriculum is designed to prepare students for advanced-level professional Social Work practice, and builds upon a solid base of coursework in human behavior, practice methods, research, and policy. The MSW program is accredited by the Council on Social Work Education and can prepare students for state certification requirements.
Requirements

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Relevant application materials must be submitted to both the Graduate School (http://uwm.edu/graduateschool/admission) and HBSSW and will be accepted for admission in the Fall semester only. All applications must be completed and submitted on or before January 2. Applications received after January 2 will be considered only if space is available after other applications are reviewed. Applicants must meet Graduate School requirements plus the following departmental requirements in order to be considered:

1. Hold or be in the process of completing a master’s degree in social welfare or master’s degree in criminal justice, criminology, or comparable degree. Applicants with master’s degrees in related disciplines will be considered on a case-by-case basis.
2. Identify the following in the Personal Statement section of the Graduate School application:
   - Which of the program’s four areas of specialization (Applied Behavioral Health, Applied Gerontology, Criminal Justice, or Family and Child Welfare) they wish to pursue.
   - Their reasons for seeking a doctoral degree in social welfare.
   - Their goals as future scholars.
   - A topic or issue in the field that they consider to be particularly challenging and worthy of study.
3. Submit a current copy of a professional résumé or curriculum vitae to the Social Welfare Ph.D. Program. This should contain information on:
   - All post-secondary education, including institutions, degrees and dates of completed programs of study, plus institutions, dates, and types of study that did not lead to a degree.
   - All employment by the applicant in social work, criminal justice, and related areas, including dates and employing organizations.
   - Employment unrelated to social work or criminal justice within the past five years.
   - Information on any past or current professional licenses held.
4. Submit scores from within the past five years on the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/gre) General Test to the Social Welfare Ph.D. Program.
5. Submit three letters of recommendation from persons familiar with the applicant’s achievements and academic potential, including at least one current or former graduate program instructor to the Social Welfare Ph.D. Program.
6. Submit a sample of written work to the Social Welfare Ph.D. Program that demonstrates: the applicant’s knowledge of social work and/or criminal justice theory, practice, and research; ability to think analytically; and writing skills. The sample should be at least 1000 words in length and represent work for which the applicant was the sole author.

The program will assign each Ph.D. student a major professor. This assignment is based on congruence between the applicant’s interests and the expertise of the major professor. In consultation with the director of the Ph.D. program, the student may change major professors after beginning the program, but no applicant will be admitted unless a doctoral faculty member in criminal justice or social work agrees to serve as major professor.

Financial Assistance
Through a combination of tuition remission, teaching assistantships, research assistantships, fellowships, and other options, the program will attempt to provide financial assistance to all admitted students during their first three years in the program. Applicants needing additional information on other sources of financial assistance, such as student loans, should contact the campus Office of Financial Aid.

Credits and Courses
A minimum degree of 43 graduate credits beyond the master’s degree are required, at least 36 of which must be earned in residence at UWM.

In consultation with the major professor and as soon as possible after admission, each student designs a program of study to gain the knowledge and skills appropriate to his/her educational goals. All programs of study must include the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 901</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>Select 11-12 credits in Specialization Seminars (see below)</td>
<td>11-12</td>
<td></td>
</tr>
</tbody>
</table>

Methods of Inquiry and Analysis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 951</td>
<td>Quantitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 952</td>
<td>Qualitative Research Methods in Social Work</td>
<td>3</td>
</tr>
</tbody>
</table>

Statistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 961</td>
<td>Introduction to Statistical Methods</td>
<td>4</td>
</tr>
<tr>
<td>SOC WRK 962</td>
<td>Applied Multiple Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 963</td>
<td>Measurement Methods and Related Multivariate Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 964</td>
<td>Advanced Statistical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Doctoral Proseminars

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 991</td>
<td>Doctoral Proseminar: (Research Ethics)</td>
<td>1</td>
</tr>
<tr>
<td>SOC WRK 991</td>
<td>Doctoral Proseminar: (Grantwriting)</td>
<td>1</td>
</tr>
<tr>
<td>SOC WRK 991</td>
<td>Doctoral Proseminar: (Teaching)</td>
<td>1</td>
</tr>
</tbody>
</table>

Teaching

Select one semester of work as a teaching assistant

Select semester as a project or research assistant

Independent Study

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 999</td>
<td>Independent Reading in Social Work</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Electives

Select 4-6 credits

Total Credits

41-46

1 Content in this area comprises a set of required courses in methods of social/behavioral research and statistics. Students are expected to enter the program with at least a basic background in both methods and statistics and may need to satisfy prerequisites before proceeding to required courses.
Two electives from inside or outside the HBSSW are required. Students may choose one or both of the above elective courses or one or two courses from an approved set of alternatives offered in other Schools or campuses. Approval must be secured from the major advisor prior to enrolling.

Requirements in this area are designed to provide students with specialized knowledge and skills needed for success in scholarly endeavors and teaching at the post-secondary level. With respect to classroom work, all students must complete the following three one-credit proseminars.

All students must complete one semester of work as a teaching assistant and one semester as a project or research assistant, usually in their second year. During the semester in which they serve as a teaching assistant, students must enroll for one credit in SOC WRK 999/CRM JST 999.

This independent study credit will be completed under the supervision of the faculty member to whom the student is assigned as an assistant. The product should be a project that will advance the student’s skills in teaching, such as preparation of a guest lecture or other such task determined by the supervising faculty member.

These credits provide an opportunity for students to take content of interest within the HBSSW or in other schools on campus that offer graduate-level courses relevant to the student’s educational goals. Elective options within the HBSSW include the completion of additional specialization seminars beyond the required total. Students may also complete this requirement by taking additional research methods or statistics courses within or outside the HBSSW, or they may take theory or basic-knowledge courses in other Schools that are at the graduate level and are approved by their advisor and the Ph.D. program director.

Knowledge Building

The goals and objectives of the doctoral program reflect the Department’s concern with urban social problems, social and economic equity and well-being, cultural diversity, and the empowerment of individuals, families, organizations, and communities to effect change. The program will prepare students to make significant contributions to social work education and the knowledge base of the profession.

The curriculum includes four areas of specialization:

- Applied Behavioral Health
- Applied Gerontology
- Criminal Justice
- Family and Child Welfare

Each student must select at least one of these areas in which to concentrate. In consultation with the major professor, a student may also choose to develop expertise that spans more than one area.

Content in these four specialization areas is presented in the form of specialization seminars. All students must take at least three specialization seminars within the program and at least one relevant course external to the HBSSW; the external course must be from a list of courses approved for this purpose or a student’s unique request approved by the doctoral program committee. At least two courses, including one internal and one external course, must be in the student’s area of specialization, and at least one course internal to the HBSSW must be in an area other than the student’s primary specialization. All specialization courses outside the HBSSW must be approved by the student’s major professor prior to enrollment.

Examples of Specialization Seminars

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 931</td>
<td>Theories of Poverty and Social Welfare Policy (Family and Child Welfare specialization)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 932</td>
<td>Theories and Research on Behavior Change (Addiction and Behavioral Health specialization)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 945</td>
<td>Family and Long-Term Care Across the Life Course (Applied Gerontology specialization)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 791</td>
<td>Current Topics in Social Work: (Family and Child Welfare Specialization)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Program Requirements

Residence

Students must meet minimum Graduate School residency requirements.

Preliminary Examination

All students must pass a preliminary examination subsequent to successfully completing all required coursework and prior to being admitted to doctoral candidacy. The examination assesses students’ ability to articulate their research interests, analyze and synthesize empirical knowledge and relevant theoretical concepts, explain how theory may affect the generation of knowledge, and show familiarity with relevant scientific methodologies. In keeping with Graduate School rules, the preliminary examination should be completed within five years of enrollment.

An Application for the Doctoral Preliminary Examination must be completed by the student and signed and submitted to the Ph.D. Program Committee by the major professor six weeks prior to the first examination. Students who fail the preliminary examination may not proceed to the dissertation. The exam may be retaken only once. Complete policies regarding forming a preliminary examination committee, writing the proposal, and taking the examination are available in the Social Welfare Ph.D. program handbook.

Dissertation Proposal Defense

All students must successfully complete an oral defense of their dissertation proposal to determine their preparation for independent research. The defense must be completed successfully within four years of initial enrollment.

Dissertation

Students who have passed the Preliminary Examination and have submitted a one-page preliminary dissertation proposal are formally admitted to doctoral candidacy. In accordance with Graduate School policies, students must then register for three research or thesis/dissertation credits each semester until the dissertation is submitted to the Graduate School. To meet the requirements for the dissertation, the candidate must complete an original independent research project that adds meaningfully to the existing body of knowledge in social work. It should be of a caliber that warrants publication in respected journals in the field.

Dissertation Defense

As the final step toward the degree, the candidate must pass an oral examination before his/her doctoral committee in defense of the dissertation. The examination may also cover general topics relevant to
the student's area of study. This requirement may not be completed until all other degree requirements are satisfied.

**Time Limit**
It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

**Social Work, BS**

The bachelor's degree in social work is accredited by the Council on Social Work Education. Its primary objective is to prepare students for beginning generalist social work practice.

The program prepares students for potential employment in both public (federal, state, and county) and private social service agencies. Students are trained to work and affect change among individuals, families, groups, organizations and communities. The program helps prepare students to engage in critical thinking and actively apply research to practice, policy, advocacy, education, and leadership. A sample of career possibilities includes caseworker, psychiatric social worker, youth counselor, and alcohol/drug counselor.

**Requirements**
The undergraduate social work major includes a pre-professional component. Social work intended majors spend their first two years building a liberal arts foundation and fulfilling proficiency requirements. Freshmen and sophomores may begin to take courses offered in the Helen Bader School of Social Welfare.

The major in Social Work requires a minimum of 42 credits in Social Work or Helen Bader School of Social Welfare courses (students can take courses in criminal justice and have them count toward the major as elective credit), and 27 credits in social sciences courses, for a minimum of 69 credits in the major. The Department requires that students attain at least a 2.5 cumulative GPA, including transfer credits, in order to declare the major. In addition, students must attain a 2.0 cumulative GPA in order to graduate from UWM.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Curriculum Requirements (p. 1924)</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Major Requirements (p. 1924)</td>
<td>69</td>
</tr>
<tr>
<td></td>
<td>General Electives</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>120</td>
</tr>
</tbody>
</table>

**General Curriculum Requirements: Social Work and Criminal Justice**

For courses that satisfy the distribution requirements in humanities, natural science, and social science, see the GER listing in the current Timetable (http://www4.uwm.edu/schedule). The UWM General Education Requirements (p. 33) apply to all students who were not enrolled in an accredited institution prior to 1986.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>English</td>
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</table>

Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Mathematics</td>
<td></td>
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</table>

Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.

**Liberal Arts Foundation**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Arts</td>
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</table>

Select 3 credits of General Education-approved arts course in the history, philosophy, theory, or practice of the creative and interpretive arts

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Foreign Language</td>
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</table>

Completion of two years of high school-level instruction in a single foreign language, or satisfactory completion of at least two semesters of a single foreign language, or approved demonstration of foreign language ability

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
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</tbody>
</table>

COMMUN 103 Public Speaking 3
Select 9 credits of General Education-approved humanities courses 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Natural Science</td>
<td></td>
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</tbody>
</table>

Select 6 credits of General Education-approved natural science courses to include a lab or field course 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>United States History and Institutions</td>
<td></td>
</tr>
</tbody>
</table>

Select Option 1: History 151 and 152 or Option 2: one 400 level U.S. history course plus one additional course listed below. Select one of the following:

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HIST 151 &amp; HIST 152</td>
<td></td>
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</tbody>
</table>

American History: 1607 to 1877 and American History: 1877 to the Present 6

Option 2:

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>HIST 4XX</td>
<td></td>
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</table>

400 level U.S. History Course 6

and one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>ECON 100</td>
<td></td>
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</table>

Introductory Economics 3

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>ECON 103</td>
<td></td>
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</table>

Principles of Microeconomics 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>POL SCI 104</td>
<td></td>
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</table>

Introduction to American Government and Politics 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>POL SCI 105</td>
<td></td>
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</table>

State Politics 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>POL SCI 385</td>
<td></td>
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</table>

American Political Thought 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>POL SCI 405</td>
<td></td>
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</table>

State Government: 3

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>POL SCI 411</td>
<td></td>
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</table>

Constitutional Law: Government Powers and Federalism 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>POL SCI 412</td>
<td></td>
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</table>

Constitutional Law: Civil Rights and Liberties 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>POL SCI 471</td>
<td></td>
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</table>

Problems in Law Studies: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>SOCIOL 200</td>
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</table>

Contemporary American Society 3

Total Credits 27

**Major Requirements**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>SOC WRK 100</td>
<td></td>
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</tbody>
</table>

Introduction to Social Work 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>SOC WRK 206</td>
<td></td>
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</table>

Introduction to Social Welfare Policy 3

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>SOC WRK 250</td>
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</table>

Human Behavior and the Social Environment 3

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>SOC WRK 310</td>
<td></td>
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</table>

Social Work Methods I 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SOC WRK 410</td>
<td></td>
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</tbody>
</table>

Social Work Methods II 3

Total Credits 27
For further information about fieldwork, consult the Field Staff Office, Enderis Hall, Room 1075, (414) 229-6526

Declaring Your Major
In addition to the normal University admission requirements, students apply on a separate application for admission to the Social Work major. Students who have not yet been admitted to the Social Work major are still able to take a sequence of Social Work courses. Students must formally be admitted into the Social Work major prior to beginning field placement. The requirements to apply to the Social Work major are:

- Completion of 48+ credits
- Completion of Social Work 100, 250, and 206
- Cumulative GPA of 2.5 or higher, including all transfer work.

All of these requirements must be satisfied at the time a student applies. Applications are found online and an advisor should be consulted for more information.

Undergraduate Academic Advising
The Office of Student Services in the Helen Bader School of Social Welfare, located in Enderis Hall Room 1110, offers undergraduate student academic advising from professional advisors who are familiar with the Social Work and Criminal Justice curriculum, College requirements, and university policies. Advisors can also provide information on scholarship opportunities, tutoring, and student organizations that align with a student’s interests.

These advisors provide services such as new freshman orientation, course selection, assistance with registration, and review of transfer credit. Students are assigned to a permanent professional advisor upon admittance into the Helen Bader School of Social Welfare and are encouraged to meet with their academic advisor at least once each semester. Please call (414) 229-4852 to schedule an appointment or for more information.

Transfer Students
The Helen Bader School of Social Welfare welcomes students from other academic areas on the UWM campus and students transferring to UWM from other institutions. Students planning to transfer into either major from another institution should meet with an academic advisor as soon as they are admitted and the transfer credit evaluation process has been completed. During this meeting, the student and advisor will review transfer course equivalencies, discuss program requirements, and create an academic plan for coming semesters. Students may meet with their advisor in person or by phone. Please call (414) 229-4852 to schedule an appointment or for more information.

Honors in the Major
Honors in the Major are granted to students who have earned a GPA of 3.500 or above in major courses, including social science credits completed at UWM.

Honors in the School of Architecture and Urban Planning
Dean's Honor List
GPA of 3.750 or above (Levels 1, 2), earned on a full-time student’s GPA on 12 or more graded credits in a given semester.
Honors Degree and Honors Degree with Thesis
Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 36) section of this site.

Commencement Honors
Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

Final Honors
Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Contact Information
Office of Student Services
Enderis Hall, 1110
2400 E Hartford Ave.
Phone: 414-229-4852
hbssw@uwm.edu

Social Work, MSW
Related Certificates
- Applied Gerontology (http://uwm.edu/graduateschool/applied-gerontology-certificate)
- Non-Profit Management (http://uwm.edu/graduateschool/nonprofit-management-certificate)
- Trauma-Informed Care (http://uwm.edu/graduateschool/trauma-informed-care-certificate)
- Women's Studies (http://uwm.edu/graduateschool/womens-studies-certificate)

State of Wisconsin Credentials
- School Social Work Certification (http://uwm.edu/socialwelfare/academics/school-social-work)
- Substance Abuse Certification (http://uwm.edu/socialwelfare/academics/substance-abuse-certification-sac)

State of Wisconsin Credentials

Overview
The Helen Bader School of Social Welfare (HBSSW) offers a program of graduate studies in social work. As a department in an urban research university, the mission of the Department of Social Work is to promote positive change through social work research, scholarship, education, and community partnerships. The Department promotes the values of the social work profession through a commitment to social justice and diversity, a dedication to public service, and an emphasis on individual and community well-being. The goal of the MSW program is to prepare graduates with specialized knowledge and skills for advanced practice and leadership with diverse populations and communities.

In furtherance of its mission, the goals of the Social Work Department are:
1. To educate students to become highly skilled, culturally competent, and ethical social workers and to provide leadership for the practice of social justice.
2. To create and disseminate knowledge leading to social work and inter-disciplinary innovations.
3. To engage in research and apply results that inform social work policy, practice, advocacy, education, and future research.
4. To collaborate with community partners in promoting evidence-informed practice, educational and research partnerships, and social and economic justice.

HBSSW offers students access to the University computer system, special interview training rooms, and specialized audiovisual materials.

The MSW curriculum is designed to prepare students for advanced-level professional Social Work practice, and builds upon a solid base of coursework in human behavior, practice methods, research, and policy. The MSW program is accredited by the Council on Social Work Education and can prepare students for state certification requirements.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/Registrar/contact-us) online.

Admission
Application must be made to both the Graduate School and the MSW program. Program application materials are available for the Fall semester only. All applications must be completed and submitted on or before January 2. Applicants must meet Graduate School and program requirements for admission, including:
1. Undergraduate grade point average of 2.75 or better.
2. Completion of at least 21 semester credits in the social and behavioral sciences (i.e., psychology, sociology, political science, economics, anthropology, and/or their equivalents).
3. Submission of a program application which includes three letters of recommendation, a narrative statement, and a comprehensive professional resume.

Please see complete requirements and instructions for applying on the MSW program web page (http://uwm.edu/socialwelfare/academics/msw-in-social-work) before starting an application.

Credits and Courses
The MSW program requires a minimum of 34 graduate credits for students admitted to the Advanced Curriculum. Students may be required to complete up to 22 credits to fulfill the Professional Foundation prior to beginning the Advanced Curriculum. The minimum 34 Advanced Curriculum credit requirements are distributed as follows:
**Professional Foundation**

Students admitted into the graduate social work program without having earned a bachelor's degree from an accredited social work program within the past 5 years are required to fulfill the Professional Foundation prior to Advanced Curriculum coursework (see below for exemptions). The purpose of the Professional Foundation is to orient students to the profession and to provide a knowledge, values and skills base in preparation for the Advanced Curriculum. Coursework in the Professional Foundation is not included in the 34 Advanced Curriculum credits required for completion of the MSW degree. The Professional Foundation courses are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
<td>4</td>
</tr>
<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following options:

**Option 1:**

- SOC WRK 711 Direct Social Work Practice I
- SOC WRK 811 Direct Social Work Practice II

Select one additional practice course

**Option 2:**

- SOC WRK 713 Community Organization, Planning and Human Service Administration I
- SOC WRK 813 Financial Management and Planning in Human Services

Select one additional practice course

- SOC WRK 793 Evaluation of Practice
- SOC WRK 794 Evaluation of Programs

**Concentration**

- SOC WRK 851 Social Issue and Policy Analysis

Select one of the following (depending on area of concentration):

- SOC WRK 685 Social Gerontology
- SOC WRK 753 Adult Psychopathology
- SOC WRK 771 Development of the Family Over the Life Span

**Electives**

Select 6 credits of electives

Total Credits 34

---

1. The capstone requirement is satisfied by SOC WRK 822.
2. Requires sections to be selected from within the specialized concentration area.

**Exemptions**

Students who have, within the 5 years preceding admission, completed coursework which substantially duplicates Professional Foundation courses may apply to the Chair of the Social Work Department for an exemption from the relevant courses. Exemption examinations are also offered on a scheduled basis for these courses. Exemption of the field experience (SOC WRK 721) may be permitted under special employment experience circumstances and only by permission of the Director of Field Programs. Students interested in securing an exemption should request course exemption forms upon notification of admission to the program.

All requests for exemptions must be made at the time of initial enrollment. Exemption requests will not be accepted following the end of the first semester of coursework.

**Specializations**

Upon completion of the Professional Foundation requirements—through coursework or exemption—students enter into the Advanced Curriculum and choose one of five specialized concentrations:

- Physical Health
- Behavioral Health and Mental Health
- Gerontology
- Children and Families
- Community and Organizational Leadership

With careful faculty advising, students are able to develop a course of study that builds upon their individualized interests, experiences, and strengths.

**Specialization Descriptions**

**Physical Health**

This concentration is designed to prepare students for advanced and clinical practice in a variety of health care settings. Students in the health concentration are prepared to address the multifaceted world of health care through coursework designed to expose them to issues of chronic health, health care delivery, health policy, and the social determinates of health across the life course. Health concentration students are trained in case management and assessment skills, and the role of social work in multidisciplinary health care teams. Students develop a solid understanding of how access to health systems, policies, and programs impact health. Students who graduate with a concentration in health are trained in case management and assessment skills, and the role of social work in multidisciplinary health care teams. Students develop a solid understanding of how access to health systems, policies, and programs impact health. Students who graduate with a concentration in health are prepared for practice in a variety of settings from hospitals and primary care clinics, to community health settings and long term care.

**Behavioral Health and Mental Health**

This concentration is designed to prepare students for advanced social work practice involving the delivery of mental health and addictions services to individuals, families, small groups, and the community. Students are exposed to issues, approaches, and technologies for application in prevention, treatment, administration, and policy. These are related to risks and problems with: alcohol and other drugs, mental health and mental illness, intimate partner violence, community violence, and other behavioral health concerns across the lifespan. Coursework provides students with knowledge, values, and skills to prepare them for professional practice in a variety of private and public settings related to mental health, addictions, and substance abuse.
Gerontology
This concentration is designed to aid students in understanding the complexity of the aging process from the perspective of the individual, family, society and social policy. The concentration will cover the physical, psychological and social processes of aging including family roles and responsibilities, cultural diversity, social support networks and the use of health and social services. Major developmental issues during the second half of life will be presented and interventions to facilitate adaptation to developmental change will be described. Coursework will enable students to: understand late-life mental disorders; develop assessment skills; formulate, implement and evaluate treatment plans; and become aware of issues related to age and ageism as they influence social work practice.

Children and Families
The social work profession has a long history of commitment to ensuring the well-being of children. Furthermore, professionals recognize the family system as being significant in the lives of children. The family system, in its various forms, represents a significant social institution, essential to communities and to society as a whole. This concentration focuses on the study of family systems, child and family welfare, and interventions to enhance the lives of children and families. Students in this concentration develop the advanced practice knowledge and skills necessary to provide services to children and families in a wide variety of settings.

Community and Organizational Leadership
Often described as “macro” practice, this concentration is for students who are interested in social change with organizations and communities. Social work within this concentration is about creating social and policy change, strengthening community and organizational systems, developing leadership skills, and addressing social injustices. Students will prepare for roles in leadership and administration, program development, planning, policy, and community practice.

Double Concentration
Students who are interested in gaining knowledge and skills relevant to both macro practice techniques and a second “direct practice” concentration may choose a “Double Concentration” sequence. This sequence is a combination of Community and Organizational Leadership and a second concentration (Physical Health, Behavioral Health and Mental Health, Gerontology, or Children and Families), and may require up to an additional semester of coursework. Four semesters of Field Placement are required with two semesters of that Field experience being within a direct practice field setting and two semesters of a Community and Organizational Leadership-based field placement. Students who have interests that range from direct social work practice to more leadership social work roles will benefit from this option.

Practice Method Areas

Direct Practice
By providing advanced-level knowledge and skills to address the changing impact of interpersonal and social problems, this specialty prepares students who are interested in using direct practice to help individuals, families, and groups.

Macro Practice
This method is for students who are interested in planned change with organizations and communities. Students will prepare for roles in planning, policy, administration, program development and community practice.

Double Methods
Students who are interested in gaining knowledge and skills relevant to both Direct Practice and Macro Practice techniques and settings may choose a “Double Methods” sequence. This combination of methods tracks may require up to an additional semester of coursework. Four semesters of Field Placement are required with two semesters of Direct Practice experience and two semesters of Macro Practice experience. Students who have interests that range from direct social work practice to more administrative social work roles will benefit from this option.

Program Requirements
Faculty Advisor
All students will be assigned a faculty member to advise and supervise their studies as specified in Graduate School regulations. Students should develop, in consultation with the advisor, a written plan of study, including selection of the specialized concentration. Students may elect to change advisor contingent upon the new advisor’s appropriateness to the area of specialized concentration, the advisor’s acceptance of additional advisees, and formal notification to the MSW specialist in the MSW program.

Time Limit
Students admitted directly into the Advanced Curriculum must complete all degree requirements within seven years of initial enrollment; students required to complete any portion of the Professional Foundation must complete all degree requirements within seven years of initial enrollment.

Social Work, MSW/Criminal Justice, MS
Both departments in the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice, or social work with a focus on criminal justice (e.g., corrections, juvenile justice, probation and parole, etc).

Requirements
Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Admission
Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice and the MSW program in the Helen Bader School of Social Welfare.

Credit and Courses
Students accepted into this MS/MSW program complete the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 773</td>
<td>Perspectives on Crime and the Criminal Justice System (G)</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 743</td>
<td>Proseminar: Administration of Criminal Justice Systems (G)</td>
<td>3</td>
</tr>
</tbody>
</table>
Select 12 additional credit hours of courses within the criminal justice program 12
Select 12 credit hours of Social Work courses with the consent of the student’s advisor 12
Students must complete the requirements of the Essay Option or Non-Essay Option as the degree capstone

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRM JST 756</td>
<td>Proseminar: Analysis of Criminal Justice Research (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 604</td>
<td>Social Systems and Social Work Practice (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 662</td>
<td>Methods of Social Welfare Research (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 665</td>
<td>Cultural Diversity and Social Work (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 708</td>
<td>Social Work Methods I: Individuals and Families (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 709</td>
<td>Social Work Methods II: Groups, Organizations and Communities (G)</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I (G)</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 750</td>
<td>Social Welfare Policy Development and Implementation (G)</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
<td>4</td>
</tr>
<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
<td>4</td>
</tr>
<tr>
<td>SOC WRK 711</td>
<td>Direct Social Work Practice I</td>
<td>-</td>
</tr>
<tr>
<td>SOC WRK 811</td>
<td>Direct Social Work Practice II</td>
<td>-</td>
</tr>
<tr>
<td>SOC WRK 713</td>
<td>Community Organization, Planning and Human Service Administration I</td>
<td>-</td>
</tr>
<tr>
<td>SOC WRK 915</td>
<td>Human Services Administration II</td>
<td>-</td>
</tr>
<tr>
<td>SOC WRK 793</td>
<td>Evaluation of Practice</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 794</td>
<td>Evaluation of Programs</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 851</td>
<td>Social Issue and Policy Analysis (G)</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 685</td>
<td>Social Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>-</td>
</tr>
<tr>
<td>SOC WRK 771</td>
<td>Development of the Family Over the Life Span</td>
<td>-</td>
</tr>
</tbody>
</table>

**Electives**

Select 6 credits of electives 3

**Total Credits** 89

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1 Electives selected from among successfully completed CJ courses in consultation with faculty advisor.

**Total Credits for Coordinated Degree: 71 (without a BSW) or 49 (with a BSW).**

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. Degrees will be awarded simultaneously.

A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

**Program Requirements**

**Time Limit**

Students in the coordinated MS/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

**Social Work, MSW/Social Welfare, PhD**

**Related Certificates**

- Applied Gerontology (http://uwm.edu/graduateschool/applied-gerontology-certificate)
- Non-Profit Management (http://uwm.edu/graduateschool/nonprofit-management-certificate)
- Trauma-Informed Care (http://uwm.edu/graduateschool/trauma-informed-care-certificate)
- Women’s Studies (http://uwm.edu/graduateschool/womens-studies-certificate)

**State of Wisconsin Credentials**

- School Social Work Certification (http://uwm.edu/socialwelfare/academics/school-social-work)
- Substance Abuse Certification (http://uwm.edu/socialwelfare/academics/substance-abuse-certification-sac)

**Overview**

The Helen Bader School of Social Welfare (HBSSW) offers a program of graduate studies in social work. As a department in an urban research university, the mission of the Department of Social Work is to promote positive change through social work research, scholarship, education, and community partnerships. The Department promotes the values of the social work profession through a commitment to social justice and diversity, a dedication to public service, and an emphasis on individual and community well-being. The goal of the MSW program is to prepare graduates with specialized knowledge and skills for advanced practice and leadership with diverse populations and communities.

In furtherance of its mission, the goals of the Social Work Department are:
1. To educate students to become highly skilled, culturally competent, and ethical social workers and to provide leadership for the practice of social justice.
2. To create and disseminate knowledge leading to social work and inter-disciplinary innovations.
3. To engage in research and apply results that inform social work policy, practice, advocacy, education, and future research.
4. To collaborate with community partners in promoting evidence-informed practice, educational and research partnerships, and social and economic justice.

HBSSW offers students access to the University computer system, special interview training rooms, and specialized audiovisual materials.

The MSW curriculum is designed to prepare students for advanced-level professional Social Work practice, and builds upon a solid base of coursework in human behavior, practice methods, research, and policy. The MSW program is accredited by the Council on Social Work Education and can prepare students for state certification requirements.

**Admission Requirements**

**Application Deadlines**

If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**

Relevant application materials must be submitted to both the Graduate School and HBSSW and will be accepted for admission in the Fall semester only. All applications must be completed and submitted on or before January 2. Applications received after January 2 will be considered only if space is available after other applications are reviewed.

Students who apply and are accepted to the joint MSW/Ph.D. program will be able to earn both the Master of Social Work and Doctor of Philosophy in Social Welfare both degrees in the course of their studies and will not be required to apply to the Ph.D. program after earning the MSW degree, assuming their progress is satisfactory. Applicants who are not offered admission to the joint program will still be considered for admission into the MSW-only program.

All applicants must meet Graduate School requirements plus the following HBSSW requirements:

1. Have an undergraduate grade point average of 2.75 or better.
2. Have completed at least 21 semester credits in the social and behavioral sciences (i.e., psychology, sociology, political science, economics, anthropology, and/or their equivalents).
3. Indicate the following in the Personal Statement section of the Graduate School application form:
   • Which of the program’s four areas of specialization (Applied Behavioral Health, Applied Gerontology, Criminal Justice, or Family and Child Welfare) they wish to pursue.
   • Their reasons for seeking a doctoral degree in social welfare.
   • Their goals as future scholars.
   • Topic or issue in the field that they consider to be particularly challenging and worthy of study.
4. In materials submitted to the HBSSW, applicants must:
   • Provide a current copy of a professional résumé or curriculum vitae. This should contain information on:
   • All post-secondary education, including institutions, degrees and dates of completed programs of study, plus institutions, dates, and types of study that did not lead to a degree.
   • All employment by the applicant in social work or criminal justice and related areas, including dates and employing organizations.
   • Employment unrelated to social work or criminal justice within the past five years.
   • Information on any past or current professional licenses held.

5. Submit scores from within the past five years on the Graduate Record Examination (GRE) (http://uwm.edu/graduateschool/admission/#gre) General Test.
6. Submit three letters of recommendation from persons familiar with the applicant’s achievements and academic potential, including at least one current or former academic instructor.
7. Submit a sample of written work that demonstrates: the applicant’s knowledge of social science theory, practice, and research; ability to think analytically; and writing skills. The sample should be at least 1000 words in length and represent work for which the applicant was the sole author, or if it is jointly authored should indicate which sections were primarily done by the applicant.

**Advisement**

The HBSSW will assign each MSW/Ph.D. student a major professor. This assignment is based on congruence between the applicant’s interests and the expertise of the major professor. In consultation with the director of the Ph.D. program, the student may change major professors after beginning the program, but no applicant will be admitted unless a doctoral faculty member in social welfare agrees to serve as major professor.

**Financial Assistance**

Through a combination of tuition remission, teaching assistantships, research assistantships, fellowships, and other options, the program will attempt to provide financial assistance to all admitted students during their first four years in the program. Applicants needing additional information on other sources of financial assistance, such as student loans, should contact the campus’s Office of Financial Aid.

**Credits and Courses**

**MSW Requirements**

The MSW portion of the joint curriculum requires a minimum of 22 graduate credits for students admitted to the Advanced Curriculum. Another 12 credits normally required in the Advanced Curriculum will be replaced by the same number of Ph.D-level credits. Students admitted into the joint curriculum who have not earned a bachelor’s degree from an accredited social work program within the past five years are required to complete 22 credits in the Professional Foundation prior to beginning courses in the Advanced Curriculum.

**Professional Foundation**

The purpose of the Professional Foundation is to orient students to the profession and to provide a knowledge, values and skills base for later course. Credits in the Professional Foundation are not included in the 22 Advanced Curriculum credits required for completion of the MSW degree, nor do they apply to the required 12 Ph.D-level credits.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOC WRK 604</td>
<td>Social Systems and Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 662</td>
<td>Methods of Social Welfare Research</td>
<td>3</td>
</tr>
</tbody>
</table>
A minimum of 39 credits of Ph.D.-level coursework is required. At least 33 credits must be earned in residence at UWM. Required courses include:

- Social Work Methods I: Individuals and Families
- Social Work Methods II: Groups, Organizations and Communities
- Field Instruction I
- Social Welfare Policy Development and Implementation

Exemptions

Students who have, within the 5 years preceding admission, completed coursework which substantially duplicates MSW Professional Foundation courses may apply to the Chair of the Social Work Department for an exemption from the relevant courses. Exemption examinations are available in the Social Welfare Ph.D. program handbook. Students interested in securing an exemption should request course exemption forms upon notification of admission to the program. All requests for exemptions must be made at the time of initial enrollment. Exemption requests will not be accepted following the end of the first semester of coursework.

Ph.D. Requirements

A minimum of 39 credits of Ph.D.-level coursework is required. At least 33 of these must be earned in residence at UWM. Required courses include:

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOC WRK 665</td>
<td>Cultural Diversity and Social Work</td>
<td>3</td>
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<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 708</td>
<td>Social Work Methods I: Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 709</td>
<td>Social Work Methods II: Groups, Organizations and Communities</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 750</td>
<td>Social Welfare Policy Development and Implementation</td>
<td>2</td>
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</table>

MSW-level Advanced Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC WRK 711</td>
<td>Direct Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>or SOC WRK 713</td>
<td>Community Organization, Planning and Human Service Administration I</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 811</td>
<td>Direct Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 820</td>
<td>Seminar in Social Work Practice:</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
<td>4</td>
</tr>
<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits: 22

MSW courses in the Advanced Curriculum to be replaced by Ph.D.-level courses are:

- SOC WRK 793 replaced by SOC WRK 961
- SOC WRK 794 replaced by SOC WRK 951 or SOC WRK 952
- SOC WRK 851 (subtitled) replaced by SOC WRK 931 or SOC WRK 945
- SOC WRK 791 replaced by SOC WRK 901 or SOC WRK 932
- SOC WRK 791 replaced by SOC WRK 963 or doctoral elective

Dissertation Proposal Defense

All students must successfully complete an oral defense of their dissertation proposal to determine their preparation for independent research. The defense must be completed successfully within four years of initial enrollment.

Dissertation

Students who have passed the Preliminary Examination and have submitted a one-page preliminary dissertation proposal are formally admitted to doctoral candidacy. In accordance with Graduate School policies, students must then register for three research or thesis/
dissertation credits each semester until the dissertation is submitted to the Graduate School. To meet the requirements for the dissertation, the candidate must complete an original independent research project that adds meaningfully to the existing body of knowledge in social work or criminal justice. It should be of a caliber that warrants publication in respected journals in the field.

**Dissertation Defense**
As the final step toward the degree, the candidate must pass an oral examination before his/her doctoral committee in defense of the dissertation. The examination may also cover general topics relevant to the student's area of study. This requirement may not be completed until all other degree requirements are satisfied.

**Residence**
Students must meet minimum Graduate School residency requirements.

**Time Limit**
It is expected that most students will complete all degree requirements within seven years of initial enrollment in the joint MSW/Ph.D. program. All requirements MUST be completed within ten years from the date of initial enrollment.

**Social Work, MSW/Women's and Gender Studies, MA**
The College of Letters and Science and the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice and the field of feminist research and scholarship. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

**Admission Requirements**

**Application Deadlines**
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar's Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

**Admission**
Students are admitted to both graduate programs separately, and admission requirements (http://uwm.edu/graduateschool/admission) are consistent with those specified by the UWM Graduate School, the MA in Women's and Gender Studies program in the College of Letter and Science, and the MSW in Social Work (http://uwm.edu/graduateschool/social-work) of the Helen Bader School of Social Welfare.

**Credit and Courses**
Students accepted into this MA/MSW program complete the following courses:

### Women's and Gender Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 700</td>
<td>Feminist Issues and Scholarship (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 701</td>
<td>Advanced Global Feminisms (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 710</td>
<td>Advanced Feminist Theory (G)</td>
<td>3</td>
</tr>
<tr>
<td>WGS 711</td>
<td>Advanced Women's and Gender Studies Research Methods (G)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one G or U/G WGS course

**Electives**
Select 9 credits in WGS courses or cross-listed courses with Women's and Gender Studies (excluding Soc Wrk)

Total Credits: 24

1 Excluding WGS 497, WGS 599, WGS 700, WGS 990, and WGS 999.

**Total WGS credits: 24 (maximum of 6 U/G cr, and maximum 3 cr of WGS 999)**

### Master of Social Work

<table>
<thead>
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<th>Title</th>
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<tr>
<td>SOC WRK 604</td>
<td>Social Systems and Social Work Practice (U/G)</td>
<td>3</td>
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<tr>
<td>SOC WRK 662</td>
<td>Methods of Social Welfare Research (U/G)</td>
<td>3</td>
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<tr>
<td>SOC WRK 665</td>
<td>Cultural Diversity and Social Work (U/G)</td>
<td>3</td>
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<tr>
<td>SOC WRK 705</td>
<td>Individual Behavior and Social Welfare (G)</td>
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<tr>
<td>SOC WRK 708</td>
<td>Social Work Methods I: Individuals and Families (G)</td>
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<tr>
<td>SOC WRK 709</td>
<td>Social Work Methods II: Groups, Organizations and Communities (G)</td>
<td>2</td>
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<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I (G)</td>
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<tr>
<td>SOC WRK 750</td>
<td>Social Welfare Policy Development and Implementation (G)</td>
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### Social Work Advanced Practice Curriculum

#### Practice

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<tr>
<td>SOC WRK 711</td>
<td>Direct Social Work Practice I (G)</td>
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<tr>
<td>or SOC WRK 713</td>
<td>Community Organization, Planning and Human Service Administration I</td>
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<tr>
<td>SOC WRK 811</td>
<td>Direct Social Work Practice II: (Subtitled) (G)</td>
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<tr>
<td>or SOC WRK 915</td>
<td>Human Services Administration II</td>
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Select one additional Social Work practice course

#### Field

<table>
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<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II (G)</td>
<td>3</td>
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<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III (G)</td>
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<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV (G)</td>
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#### Human Behavior Content

Select one of the following:

<table>
<thead>
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<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology (G)</td>
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<tr>
<td>SOC WRK 771</td>
<td>Development of the Family Over the Life Span (G)</td>
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<tr>
<td>SOC WRK 685</td>
<td>Social Gerontology (U/G)</td>
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### Research

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<td>SOC WRK 793</td>
<td>Evaluation of Practice (G)</td>
<td>2</td>
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<tr>
<td>SOC WRK 794</td>
<td>Evaluation of Programs (G)</td>
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### Social Policy

<table>
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<tr>
<td>SOC WRK 851</td>
<td>Social Issue and Policy Analysis: (Subtitled) (G)</td>
<td>2-3</td>
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</tbody>
</table>

**Electives**
Select 6 credits from Women's and Gender Studies courses in consultation with faculty advisor

Total Credits 56-57

Minimum Total Credits for Coordinated Program: 52 (for those admitted to the MSW Social Work Advanced Curriculum).

Program Requirements

Time Limit
Students in the coordinated MA/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

Admission Requirements

Application Deadlines
If at any time you are unsure about a published date or deadline (http://uwm.edu/graduateschool/program-deadlines), call the Registrar’s Office at (414) 229-3800 or submit a contact form (http://uwm.edu/registrar/contact-us) online.

Application
- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (https://graduateschool-apply.uwm.edu).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

Admission
Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

Credits and Courses

All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOC WRK/COUNS/NURS/OCCTHPY 774</td>
<td>Trauma Counseling I: Theory and Research</td>
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<tr>
<td>SOC WRK/COUNS/NURS/OCCTHPY 775</td>
<td>Trauma Counseling II: Diagnosis and Treatment</td>
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Optional Field Work
Select 3-6 credits from the following:

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<tbody>
<tr>
<td>SOC WRK 721</td>
<td>Field Instruction I</td>
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<tr>
<td>SOC WRK 722</td>
<td>Field Instruction II</td>
<td></td>
</tr>
<tr>
<td>SOC WRK 821</td>
<td>Field Instruction III</td>
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<tr>
<td>SOC WRK 822</td>
<td>Field Instruction IV</td>
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<tr>
<td>SOC WRK 921</td>
<td>Field Instruction V</td>
<td></td>
</tr>
<tr>
<td>COUNS 764</td>
<td>Supervised Practicum 1 in School Counseling</td>
<td></td>
</tr>
<tr>
<td>COUNS 765</td>
<td>Supervised Practicum 1 in Clinical Mental Health Counseling</td>
<td></td>
</tr>
<tr>
<td>NURS 737</td>
<td>Clinical Nurse Specialist: Practicum I</td>
<td></td>
</tr>
<tr>
<td>NURS 738</td>
<td>Clinical Nurse Specialist: Practicum II</td>
<td></td>
</tr>
<tr>
<td>NURS 739</td>
<td>Clinical Nurse Specialist: Practicum III</td>
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<tr>
<td>OCCTHPY 725</td>
<td>Occupational Therapy Field Service I</td>
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<tr>
<td>OCCTHPY 735</td>
<td>Occupational Therapy Field Service II</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18-21

Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in in trauma-informed practice field settings, contingent on the respective department’s field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Occupational Therapy—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

<table>
<thead>
<tr>
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<td>SOC WRK/CRM JST 497</td>
<td>Study Abroad: (Bristol or South Africa)</td>
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<tr>
<td>SOC WRK 820</td>
<td>Seminar in Social Work Practice: (Qualifying topics: Violent &amp; Traumatized Families or Motivational Interviewing)</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 753</td>
<td>Adult Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>SOC WRK 754</td>
<td>Child and Adolescent Psychopathology</td>
<td>2</td>
</tr>
<tr>
<td>SOC WRK 691</td>
<td>Practice Methods in Social Work: (Topic: Community Building &amp; Mindfulness)</td>
<td>1-3</td>
</tr>
<tr>
<td>SOC WRK 680</td>
<td>Death and Dying</td>
<td>3</td>
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<tr>
<td>SOC WRK 818</td>
<td>Treatment of Co-Occurring Disorders</td>
<td>3</td>
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<tr>
<td>PSYCH 711</td>
<td>Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning &amp; Memory)</td>
<td>1-4</td>
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<tr>
<td>PSYCH 727</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PH 732</td>
<td>Youth Mental Health Practice for Non Mental Health Professionals</td>
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</tbody>
</table>
Youth Work, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Social Work)

The Youth Work Certificate is available to students in Social Work, Community Education and Engagement, Exceptional Education, and Educational Studies. It is ideal for students who want to learn more about adolescence and working with youth in a variety of settings, including large and small community-based programs, group homes, foster care, and residential treatment centers. The focus is on youth who are troubled or at high risk, but much of the learning applies to youth in general and younger children as well.

**Requirements**

<table>
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>ED POL/SOC WRK 580</td>
<td>An Overview of Child/Youth Care</td>
<td>3</td>
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<tr>
<td>ED POL/SOC WRK 581</td>
<td>Youth Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 509</td>
<td>Fieldwork/Practicum in Education and the Community</td>
<td>2-3</td>
</tr>
</tbody>
</table>

Select 6 credits of courses focused on Human Development or Family Work

Total Credits | 14-15

1. Fieldwork must relate to child and/or youth care.

Certificate Requirements

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
   - Degree programs must approve the courses from certificates that can double count toward the degree.
   - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in Ph.D. programs must still complete the minimum residency requirements)
   - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.

3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

**Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.
ARCHIVE

Undergraduate Catalogs

- 2016-2017 Catalog (http://catalog.uwm.edu/archive/Undergraduate-Catalog-2016-2017_1_.pdf)

Graduate Catalogs

- 2016-2017 (http://catalog.uwm.edu/archive/program-bulletin-2016.pdf)
- 2012-2013 (http://catalog.uwm.edu/archive/program-bulletin-2012.pdf)
- 2010-2011 (http://catalog.uwm.edu/archive/program-bulletin-2010.pdf)
INDEX

A
Academic Enrichment ................................................. 40
Accounting, BBA .......................................................... 357
Actuarial Science, BA .................................................... 1605
Actuarial Science, Minor ............................................... 1608
Administrative Leadership ........................................ 431
Administrative Leadership, MS .................................... 441
Administrative Leadership MS: Adult, Continuing, and Higher Education Administration .................................................. 438
Administrative Leadership MS: Educational Administration and Supervision .................................................. 440
Administrative Leadership Specialist, Graduate Certificate .................................................. 441
Admission and Costs .................................................. 11
Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate ................................................ 1574
Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate ................................................ 1576
Advanced Computational Imaging, Graduate Certificate ................................................ 717
Advanced Study in Archives and Records Administration, Graduate Certificate ................................................ 927
Advanced Study in Chamber Music, Graduate Certificate ................................................ 231
Advanced Study in Digital Libraries, Graduate Certificate ................................................ 928
Advanced Study in Teaching and Learning, Graduate Certificate ................................................ 553
African and African Diaspora Studies ................................ 985
African and African Diaspora Studies, BA ......................... 992
Africology, Minor .................................................. 996
Africology, PhD .................................................. 997
Aid and Scholarships ................................................ 20
American Indian Studies ............................................. 1000
American Indian Studies, Undergraduate Certificate ................................................ 1004
American Sign Language Studies, Minor ........................................ 448
Ancient Mediterranean Studies, Undergraduate Certificate ................................................ 1010
Animation, BA .................................................. 184
Anishinaabe Language, Undergraduate Certificate ................................................ 1005
Anthropology .......................................................... 1012
Anthropology, BA .................................................. 1023
Anthropology, Minor ................................................ 1027
Anthropology, MS .................................................. 1028
Anthropology, MS/Library and Information Science, MLIS ................................................ 1030
Anthropology, PhD ................................................ 1031
Applied Computing, BS ............................................. 692
Applied Data Analysis Using SAS, Graduate Certificate ................................................ 1919
Applied Gerontology, Graduate Certificate ............................ 1920
Applied Gerontology, Graduate Certificate (College of Health Sciences, Department of Kinesiology) ................................................ 877
Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science) ................................................ 694
Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematics) ................................................ 1609
Applied Urban Aquaculture, Undergraduate Certificate ................................................ 782
Arabic, Minor .................................................. 1327
Architectural Studies, BS ............................................ 52
Architectural Studies, Minor ......................................... 55
Architecture .................................................. 45
Architecture and Urban Planning (School of) ...................... 44
Architecture, MArch ............................................. 61
Architecture, MArch/Urban Planning, MUP ...................... 63
Architecture MArch: Ecological Design .................................... 55
Architecture MArch: Preservation Studies ...................................... 57
Architecture MArch: Real Estate Development ..................................... 59
Architecture, MS .................................................. 64
Architecture, PhD ................................................ 65
Archive .................................................. 1935
Art & Design .................................................. 86
Art and Design, Minor: Community Arts ................................ 108
Art and Design, Minor: Design ..................................... 109
Art and Design, Minor: Photography .................................. 109
Art and Design, Minor: Studio ....................................... 110
Art, BA: Community Arts ............................................ 115
Art, BA: Design Studies ............................................. 118
Art, BA: Digital Fabrication and Design ................................ 121
Art, BA: Studio Arts ................................................. 124
Art, BFA: Ceramics ................................................ 126
Art, BFA: Design and Visual Communication ................................ 129
Art, BFA: Digital Studio Practice ..................................... 133
Art, BFA: Fibers ................................................ 136
Art, BFA: Jewelry and Metalsmithing ................................ 139
Art, BFA: Painting and Drawing ...................................... 143
Art, BFA: Photography and Imaging .................................... 146
Art, BFA: Print and Narrative Forms .................................... 149
Art, BFA: Sculpture ................................................. 152
Art Education, BFA ............................................. 110
Art Education, MS ............................................. 114
Art History .................................................. 1037
Art History and Criticism, Minor .................................... 1046
<table>
<thead>
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<th>Degree Program</th>
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<tbody>
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<td>Art History, MA</td>
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<td>Art, MA: Design Entrepreneurship and Innovation</td>
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<td>Art, MFA</td>
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<td>(School of Education, Department of Teaching and Learning)</td>
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<td>Athletic Training, MS</td>
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<td>Atmospheric Science, PhD</td>
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<td>Autism Spectrum Disorders, Graduate Certificate</td>
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<td>Biomedical Sciences, BS: Cytotechnology</td>
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<td>Business Administration, MBA/Language, Literature, and Translation, MA</td>
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<td>Business Administration, MBA/Nursing, DNP</td>
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<tr>
<td>Business Administration MBA: Business Analytics</td>
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<td>Business Administration MBA: Entrepreneur</td>
<td>366</td>
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<tr>
<td>Business Administration MBA: Finance</td>
<td>367</td>
</tr>
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<td>Business Administration MBA: Health Care Management</td>
<td>368</td>
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<tr>
<td>Business Administration MBA: Marketing</td>
<td>369</td>
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<tr>
<td>Business Administration MBA: Supply Chain Management</td>
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<td>Business Analytics, Graduate Certificate</td>
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<td>Business and Technical Communications, Undergraduate Certificate</td>
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<td>Business French, Minor</td>
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<td>Business German, Minor</td>
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<td>Business of Media and Film Studies, Undergraduate Certificate (College of</td>
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<td>1116</td>
</tr>
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<td>Chemistry, Minor</td>
<td>1121</td>
</tr>
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<td>Chemistry, MS</td>
<td>1122</td>
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<tr>
<td>Chemistry, PhD</td>
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<tr>
<td>Childhood and Adolescence Studies, Undergraduate Certificate</td>
<td>1131</td>
</tr>
<tr>
<td>Children's Mental Health for School Professionals, Graduate Certificate</td>
<td>498</td>
</tr>
<tr>
<td>Chinese, Minor</td>
<td>1328</td>
</tr>
<tr>
<td>Civil and Environmental Engineering</td>
<td>663</td>
</tr>
<tr>
<td>Course</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Civil Engineering, BSE</td>
<td>670</td>
</tr>
<tr>
<td>Classics, BA</td>
<td>1329</td>
</tr>
<tr>
<td>Classics, Minor</td>
<td>1333</td>
</tr>
<tr>
<td>Clinical Nurse Specialist, Graduate Certificate</td>
<td>1821</td>
</tr>
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<td>Committee Interdisciplinary Major, BA: American Indian Studies</td>
<td>1006</td>
</tr>
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<td>Committee Interdisciplinary Major, BA: Chinese Language and Culture</td>
<td>1333</td>
</tr>
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<td>Committee Interdisciplinary Major, BA: Comparative Ethnic Studies</td>
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<td>1205</td>
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<td>1337</td>
</tr>
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<td>Communication</td>
<td>1133</td>
</tr>
<tr>
<td>Communication, BA</td>
<td>1142</td>
</tr>
<tr>
<td>Communication, MA</td>
<td>1146</td>
</tr>
<tr>
<td>Communication, MA: Rhetorical Leadership</td>
<td>1147</td>
</tr>
<tr>
<td>Communication, Minor</td>
<td>1149</td>
</tr>
<tr>
<td>Communication, PhD</td>
<td>1150</td>
</tr>
<tr>
<td>Communication, PhD: Rhetorical Leadership</td>
<td>1151</td>
</tr>
<tr>
<td>Communication Sciences and Disorders</td>
<td>828</td>
</tr>
<tr>
<td>Communication Sciences and Disorders, BS</td>
<td>834</td>
</tr>
<tr>
<td>Communication Sciences and Disorders, MS</td>
<td>837</td>
</tr>
<tr>
<td>Community Engagement, Undergraduate Certificate</td>
<td>160</td>
</tr>
<tr>
<td>Community Engagement and Education, BS</td>
<td>463</td>
</tr>
<tr>
<td>Community Engagement and Education, BS: Child and Family Services</td>
<td>465</td>
</tr>
<tr>
<td>Community Engagement and Education, BS: Child Care</td>
<td>468</td>
</tr>
<tr>
<td>Community Engagement and Education, BS: Community Leadership</td>
<td>470</td>
</tr>
<tr>
<td>Community Engagement and Education, BS: Community-Based Organizations: Policy and Leadership</td>
<td>473</td>
</tr>
<tr>
<td>Community Engagement, Minor</td>
<td>478</td>
</tr>
<tr>
<td>Community Engagement Strategies, Undergraduate Certificate</td>
<td>476</td>
</tr>
<tr>
<td>Community Leadership, Undergraduate Certificate</td>
<td>479</td>
</tr>
<tr>
<td>Community-Based Organizations: Policy and Leadership</td>
<td>480</td>
</tr>
<tr>
<td>Comparative Ethnic Studies, Undergraduate Certificate</td>
<td>1282</td>
</tr>
<tr>
<td>Comparative Literature, BA</td>
<td>1374</td>
</tr>
<tr>
<td>Comparative Literature, Minor</td>
<td>1378</td>
</tr>
<tr>
<td>Complementary and Integrative Health Approaches, Undergraduate Certificate</td>
<td>879</td>
</tr>
<tr>
<td>Computer Engineering, BSE</td>
<td>677</td>
</tr>
<tr>
<td>Computer Science</td>
<td>682</td>
</tr>
<tr>
<td>Computer Science, BS</td>
<td>696</td>
</tr>
<tr>
<td>Computer Science, Minor</td>
<td>700</td>
</tr>
<tr>
<td>Computer Science, MS</td>
<td>700</td>
</tr>
<tr>
<td>Conservation and Environmental Science</td>
<td>1156</td>
</tr>
<tr>
<td>Conservation and Environmental Science, Minor</td>
<td>1157</td>
</tr>
<tr>
<td>Conservation and Environmental Sciences, BA</td>
<td>1158</td>
</tr>
<tr>
<td>Conservation and Environmental Sciences, BS</td>
<td>1163</td>
</tr>
<tr>
<td>Counseling, Minor</td>
<td>499</td>
</tr>
<tr>
<td>Course in Chemistry, BS</td>
<td>1124</td>
</tr>
<tr>
<td>Courses Approved for the L&amp;S Breadth Requirement</td>
<td>1178</td>
</tr>
<tr>
<td>Courses Approved for the L&amp;S International Requirement</td>
<td>1169</td>
</tr>
<tr>
<td>Courses Approved for the L&amp;S Research Requirement</td>
<td>1174</td>
</tr>
<tr>
<td>Crime Analysis, Undergraduate Certificate</td>
<td>1898</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>1893</td>
</tr>
<tr>
<td>Criminal Justice, BS</td>
<td>1900</td>
</tr>
<tr>
<td>Criminal Justice, Minor</td>
<td>1902</td>
</tr>
<tr>
<td>Criminal Justice, MS</td>
<td>1902</td>
</tr>
<tr>
<td>Criminal Justice, MS/Public Administration, MPA</td>
<td>1903</td>
</tr>
<tr>
<td>Criminal Justice, MS/Social Work, MS</td>
<td>1904</td>
</tr>
<tr>
<td>Criminal Justice MS: Crime Analytics</td>
<td>1898</td>
</tr>
<tr>
<td>Cultural Foundations of Community Engagement and Education, MS</td>
<td>481</td>
</tr>
<tr>
<td>Cultures and Communities, Undergraduate Certificate</td>
<td>1198</td>
</tr>
<tr>
<td>Curriculum and Instruction, MS</td>
<td>570</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Cultures and Communities Education</td>
<td>559</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Early Childhood Education</td>
<td>560</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Creative Writing</td>
<td>561</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Language and Linguistics</td>
<td>562</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Literary Studies</td>
<td>563</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Modern Studies</td>
<td>564</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Professional Writing</td>
<td>565</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: English Education: Rhetoric and Composition</td>
<td>566</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Mathematics Education</td>
<td>566</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Mathematics Teacher Leadership</td>
<td>567</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Reading Education</td>
<td>568</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Science Education</td>
<td>569</td>
</tr>
<tr>
<td>Curriculum and Instruction MS: Urban Social Studies</td>
<td>570</td>
</tr>
</tbody>
</table>

D

<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dance</td>
<td>162</td>
</tr>
<tr>
<td>Dance, BA</td>
<td>172</td>
</tr>
<tr>
<td>Dance, BFA</td>
<td>175</td>
</tr>
<tr>
<td>Dance, MFA</td>
<td>178</td>
</tr>
<tr>
<td>Dance Performance, Minor</td>
<td>171</td>
</tr>
<tr>
<td>Death Investigation, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences)</td>
<td>822</td>
</tr>
<tr>
<td>Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)</td>
<td>1032</td>
</tr>
<tr>
<td>Department/Program</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Electrical Engineering, BSE</td>
<td>1128</td>
</tr>
<tr>
<td>Education (School of)</td>
<td>1905</td>
</tr>
<tr>
<td>Digital Arts and Culture</td>
<td>1205</td>
</tr>
<tr>
<td>Digital Arts and Culture, Undergraduate Certificate</td>
<td>1210</td>
</tr>
<tr>
<td>Digital Fabrication and Design, Undergraduate Certificate</td>
<td>161</td>
</tr>
<tr>
<td>Economics</td>
<td>1213</td>
</tr>
<tr>
<td>Economics, BA</td>
<td>1220</td>
</tr>
<tr>
<td>Economics, MA</td>
<td>1224</td>
</tr>
<tr>
<td>Economics, Minor</td>
<td>1225</td>
</tr>
<tr>
<td>Economics, PhD</td>
<td>1225</td>
</tr>
<tr>
<td>Education, BS: American Sign Language Studies</td>
<td>449</td>
</tr>
<tr>
<td>Education, BS: Early Adolescence - Adolescence Level: Math</td>
<td>571</td>
</tr>
<tr>
<td>Education, BS: Early Adolescence - Adolescence Level: Science</td>
<td>574</td>
</tr>
<tr>
<td>Education, BS: Early Adolescence - Adolescence Level: Social Studies</td>
<td>577</td>
</tr>
<tr>
<td>Education, BS: Early Adolescence-Adolescence Level: English</td>
<td>580</td>
</tr>
<tr>
<td>Education, BS: Early Childhood</td>
<td>584</td>
</tr>
<tr>
<td>Education, BS: Early Childhood-Adolescence: English as a Second Language</td>
<td>587</td>
</tr>
<tr>
<td>Education, BS: Early Childhood-Adolescence: World Language</td>
<td>590</td>
</tr>
<tr>
<td>Education, BS: Inclusion and Accessibility Studies</td>
<td>594</td>
</tr>
<tr>
<td>Education, BS: Interpreter Training Program</td>
<td>451</td>
</tr>
<tr>
<td>Education, BS: Middle Childhood - Early Adolescence</td>
<td>596</td>
</tr>
<tr>
<td>Education (School of)</td>
<td>426</td>
</tr>
<tr>
<td>Educational Policy and Community Studies</td>
<td>454</td>
</tr>
<tr>
<td>Educational Policy, Graduate Certificate</td>
<td>482</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>485</td>
</tr>
<tr>
<td>Educational Psychology, MS</td>
<td>516</td>
</tr>
<tr>
<td>Educational Psychology MS: Clinical Mental Health Counseling</td>
<td>499</td>
</tr>
<tr>
<td>Educational Psychology MS: Educational Statistics and Measurement</td>
<td>501</td>
</tr>
<tr>
<td>Educational Psychology MS: Learning and Development</td>
<td>502</td>
</tr>
<tr>
<td>Educational Psychology MS: School Counseling</td>
<td>503</td>
</tr>
<tr>
<td>Educational Psychology MS: School Psychology</td>
<td>504</td>
</tr>
<tr>
<td>Educational Psychology, PhD</td>
<td>516</td>
</tr>
<tr>
<td>Educational Psychology PhD: School Psychology</td>
<td>506</td>
</tr>
<tr>
<td>Educational Psychology PhD: Counseling Psychology</td>
<td>508</td>
</tr>
<tr>
<td>Educational Psychology PhD: Educational Statistics and Measurement</td>
<td>511</td>
</tr>
<tr>
<td>Educational Psychology PhD: Learning and Development</td>
<td>513</td>
</tr>
<tr>
<td>Educational Studies, BS</td>
<td>442</td>
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<tr>
<td>Electrical Engineering, BSE</td>
<td>704</td>
</tr>
<tr>
<td>Electrical Engineering, BSE</td>
<td>711</td>
</tr>
<tr>
<td>Electrical Engineering, Minor</td>
<td>715</td>
</tr>
<tr>
<td>Energy Engineering, Graduate Certificate</td>
<td>718</td>
</tr>
<tr>
<td>Engineering and Applied Science (College of)</td>
<td>647</td>
</tr>
<tr>
<td>Engineering and Applied Science (Graduate Programs)</td>
<td>716</td>
</tr>
<tr>
<td>Engineering, MS</td>
<td>738</td>
</tr>
<tr>
<td>Engineering, MS/Urban Planning, MUP</td>
<td>740</td>
</tr>
<tr>
<td>Engineering MS: Biomedical Engineering</td>
<td>719</td>
</tr>
<tr>
<td>Engineering MS: Civil Engineering</td>
<td>721</td>
</tr>
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<td>Engineering MS: Electrical and Computer Engineering</td>
<td>722</td>
</tr>
<tr>
<td>Engineering MS: Energy Engineering</td>
<td>724</td>
</tr>
<tr>
<td>Engineering MS: Engineering Mechanics</td>
<td>727</td>
</tr>
<tr>
<td>Engineering MS: Industrial and Systems Engineering</td>
<td>729</td>
</tr>
<tr>
<td>Engineering MS: Manufacturing Engineering</td>
<td>731</td>
</tr>
<tr>
<td>Engineering MS: Materials Engineering</td>
<td>733</td>
</tr>
<tr>
<td>Engineering MS: Mechanical Engineering</td>
<td>735</td>
</tr>
<tr>
<td>Engineering MS: Occupational Biomechanics/Ergonomics</td>
<td>736</td>
</tr>
<tr>
<td>Engineering, MS: Engineering Management</td>
<td>726</td>
</tr>
<tr>
<td>Engineering, PhD</td>
<td>741</td>
</tr>
<tr>
<td>English</td>
<td>1227</td>
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<td>English as a Second Language</td>
<td>1272</td>
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<td>English as a Second Language, Minor</td>
<td>600</td>
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<td>English, BA</td>
<td>1253</td>
</tr>
<tr>
<td>English, MA</td>
<td>1262</td>
</tr>
<tr>
<td>English, MA/Library and Information Science, MLIS</td>
<td>1264</td>
</tr>
<tr>
<td>English, Minor</td>
<td>1266</td>
</tr>
<tr>
<td>English, PhD</td>
<td>1267</td>
</tr>
<tr>
<td>Enterprise Resource Planning, Graduate Certificate</td>
<td>373</td>
</tr>
<tr>
<td>Enterprise Resource Planning, Undergraduate Certificate</td>
<td>374</td>
</tr>
<tr>
<td>Entrepreneurship, Undergraduate Certificate</td>
<td>375</td>
</tr>
<tr>
<td>Environmental Health Sciences, PhD</td>
<td>1860</td>
</tr>
<tr>
<td>Epidemiology, PhD</td>
<td>1862</td>
</tr>
<tr>
<td>Ergonomics, Graduate Certificate</td>
<td>743</td>
</tr>
<tr>
<td>Ethics, Values, and Society (CEVS), Undergraduate Certificate</td>
<td>1649</td>
</tr>
<tr>
<td>Ethnic Studies</td>
<td>1274</td>
</tr>
<tr>
<td>Exceptional Education, BS: Early Adolescence - Adolescence</td>
<td>601</td>
</tr>
<tr>
<td>Exceptional Education, BS: Early Childhood</td>
<td>604</td>
</tr>
<tr>
<td>Exceptional Education, BS: Middle Childhood - Early Adolescence</td>
<td>607</td>
</tr>
<tr>
<td>Exceptional Education, MS</td>
<td>609</td>
</tr>
<tr>
<td>Executive, MBA</td>
<td>376</td>
</tr>
<tr>
<td>Family Nurse Practitioner, Graduate Certificate</td>
<td>1823</td>
</tr>
<tr>
<td>Film</td>
<td>180</td>
</tr>
</tbody>
</table>
Film, BFA ................................................................. 187
Film Studies .................................................................. 1286
Film Studies, BA .......................................................... 1291
Film Studies, Minor ...................................................... 1294
Film, Video, Animation and New Genres, Minor ............... 190
Finance, BBA .................................................................. 377
Food & Beverage Studies .............................................. 1296
Food Studies, Undergraduate Certificate (College of Health Sciences) ........................................... 840
Food Studies, Undergraduate Certificate (College of Letters and Science, Department of Food & Beverage Studies) .......................................................... 1297
Foreign Languages and Literature ................................... 1299
Forensic Science, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) .................................................. 823
Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) ...................................................... 1033
Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) ............................... 1129
Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) ........................................... 1906
Forensic Toxicology, Undergraduate Certificate (College of Health Sciences, Department of Biomedical Sciences) ........................................ 823
Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) .................................................. 1034
Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) ............................... 1129
Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) ........................................... 1907
French and Francophone Studies, Undergraduate Certificate .................................................. 1378
French, BA .................................................................... 1380
French, Italian, and Comparative Literature ........................................ 1359
French, Minor ................................................................. 1383
Freshwater Sciences and Technology MS (Thesis) .............. 784
Freshwater Sciences and Technology MS: Professional Science Track .................................................. 786
Freshwater Sciences, PhD .................................................. 788
Freshwater Sciences (School of ........................................... 777

G
General Business, Minor ................................................. 380
Geographic Information Science, Minor ............................ 1396
Geographic Information Systems, Graduate Certificate (College of Letters and Science) .................................................. 1397
Geographic Information Systems, Graduate Certificate (School of Architecture and Urban Planning) .................................................. 71
Geography ...................................................................... 1388
Geography, BA .................................................................. 1399
Geography, BS ................................................................. 1403
Geography, MA .............................................................. 1407
Geography, MA/Library and Information Science, MLIS .................................................. 1409
Geography, Minor .......................................................... 1410
Geography, MS .............................................................. 1410
Geography, PhD ............................................................. 1413
Geosciences .................................................................... 1417
Geosciences, BA ............................................................. 1423
Geosciences, BS ............................................................. 1426
Geosciences, Minor ........................................................ 1429
Geosciences, MS ............................................................. 1429
Geosciences, PhD ............................................................ 1430
German, BA ..................................................................... 1341
German, Minor ............................................................... 1344
German Studies, Undergraduate Certificate .................... 1340
Global Health, Undergraduate Certificate (College of Letters and Science) .................................................. 1436
Global Health, Undergraduate Certificate (College of Nursing) .................................................. 1824
Global Studies ................................................................ 1433
Global Studies, BA ........................................................ 1438
Global Studies, BA: Global Management .......................... 381
Global Studies, Minor ..................................................... 1450
Graduate Admission ........................................................ 17
Graduate Policies ............................................................. 22

H
Health Care Administration, BS ...................................... 848
Health Care Administration, Minor ................................... 850
Health Care Informatics, MS ............................................ 850
Health Care Informatics, MS/Library and Information Science, MLIS .................................................. 851
Health Care Informatics, Undergraduate Certificate ............ 853
Health Informatics and Administration ................................ 842
Health Professional Education, Graduate Certificate (College of Health Sciences) .................................................. 855
Health Professional Education, Graduate Certificate (College of Nursing) .................................................. 1826
Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership) .................................................. 443
Health Sciences ............................................................. 857
Health Sciences (College of) ............................................. 790
Health Sciences, PhD ....................................................... 857
Healthcare Administration, MHA .................................... 853
Healthy Aging, Undergraduate Certificate .......................... 879
History .......................................................................... 1453
History, BA ..................................................................... 1468
History, MA ................................................................. 1474
History, MA/Library and Information Science, MLIS .................. 1476
History, MA: Public History .................................................. 1477
History, Minor ................................................................ 1480
History, PhD .................................................................. 1483
Hmong Diaspora Studies, Undergraduate Certificate .............. 1284
Honors College ................................................................ 36
Human Resources and Labor Relations .................................... 1486
Human Resources and Labor Relations, MHRLR (College of Letters and Science) ................................................ 1487
Human Resources and Labor Relations, MHRLR (Lubar School of Business) .................................................. 382
Human Resources Management, BBA ................................... 384

I
Inclusion and Accessibility Studies, Minor .............................. 611
Industrial and Manufacturing Engineering ............................ 745
Industrial Engineering, BSE ................................................. 749
Industrial Engineering, Minor ............................................. 752
Information Science and Technology, BS ............................... 929
Information Science and Technology, Minor .......................... 931
Information Science and Technology, MS ............................. 932
Information Science and Technology, MS/Library and Information Sciences, MLIS .................................................. 934
Information Studies, PhD ..................................................... 936
Information Studies (School of) ............................................. 914
Information Technology Management, BBA .......................... 387
Information Technology Management, MS ............................ 390
Integrated BS-MS Degree ...................................................... 754
Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate .................................................. 612
International Admission .................................................... 18
International Business, Undergraduate Certificate ..................... 391
International Human Resources and Labor Relations, Graduate Certificate ....................................................... 1488
International Studies ........................................................... 1490
International Studies, BA ...................................................... 1491
International Studies, Minor ................................................ 1499
Interpreting, Graduate Certificate ......................................... 1775
Interprofessional Graduate Certificate in Public and Population Health (College of Health Sciences) ....................... 860
Interprofessional Graduate Certificate in Public and Population Health (College of Nursing) ...................................... 1828
Interprofessional Graduate Certificate in Public and Population Health (Zilber School of Public Health) ......................... 1864
Investment Management, Graduate Certificate ....................... 392
Investment Management, Undergraduate Certificate ............... 393
Italian, BA ...................................................................... 1383

J
Japanese, Minor ................................................................. 1345
Jewish Studies, BA ............................................................ 1345
Jewish Studies, Minor ....................................................... 1349
Journalism, Advertising, and Media Studies .......................... 1505
Journalism, Advertising, and Media Studies, BA .................... 1511
Journalism, Advertising, and Media Studies, Minor ............... 1515

K
Kinesiology .................................................................... 862
Kinesiology, BS ................................................................. 880
Kinesiology, Minor ........................................................... 882
Kinesiology, MS ................................................................ 883
Kinesiology, PhD .............................................................. 884

L
Language, Literature & Translation ....................................... 1518
Language, Literature, and Translation, MA ............................ 1539
Language, Literature, and Translation, MA/Business Administration, MBA ..................................................... 1541
Language, Literature, and Translation, MA/Library and Information Science, MLIS ............................................ 1541
Language, Literature, and Translation MA: Classics ................ 1524
Language, Literature, and Translation MA: Comparative Literature ................................................................. 1525
Language, Literature, and Translation MA: Classical Greek ........ 1526
Language, Literature, and Translation MA: French and Francophone Language, Literature, and Culture .............................. 1528
Language, Literature, and Translation MA: German Language, Literature, and Culture ............................................. 1529
Language, Literature, and Translation MA: Interpreting ............ 1530
Language, Literature, and Translation MA: Latin ................... 1532
Language, Literature, and Translation MA: Linguistics ............. 1533
Language, Literature, and Translation MA: Spanish and Hispanophone Language, Literature, and Culture ...................... 1535
Language, Literature, and Translation MA: Translation .......... 1536
Latin American and Caribbean Studies ................................... 1545
Latin American and Caribbean Studies, Undergraduate Certificate ................................................................. 1546
Latin American, Caribbean, and U.S Latin@ Studies, BA ........ 1552
Latin American, Caribbean, and U.S. Latin@ Studies ................ 1550
Latino Studies ................................................................ 1558
Latino Studies, Undergraduate Certificate ............................ 1559
Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies .......... 1562
Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate ............................................. 1563
Letters and Science (College of) ............................................ 972
Liberal Studies ................................................................. 1565
Liberal Studies, MLS ...................................................... 1566
Library and Information Science, MLIS ............................. 951
Library and Information Science, MLIS/Anthropology, MS .... 955
Library and Information Science, MLIS/English, MA .......... 957
Library and Information Science, MLIS/Geography, MA ...... 960
Library and Information Science, MLIS/Health Care Informatics, MS ... 961
Library and Information Science, MLIS/History, MA .......... 963
Library and Information Science, MLIS/Information Science and Technology, MS ........................................... 965
Library and Information Science, MLIS/Language, Literature, and Translation, MA .............................................. 967
Library and Information Science, MLIS/Music, MM ............ 968
Library and Information Science, MLIS/Urban Studies, MS ..... 970
Library and Information Science, MLIS/Women's & Gender Studies, MA 971
Library and Information Science MLIS: Archival Studies ........ 939
Library and Information Science MLIS: Information Organization ... 942
Library and Information Science MLIS: Information Technology ... 945
Library and Information Science MLIS: Public Library .......... 948
Linguistics ........................................................................ 1568
Linguistics, BA ................................................................. 1577
Linguistics, MA ............................................................... 1580
Linguistics, MA: Teaching English to Speakers of Other Languages ... 1582
Linguistics, Minor ............................................................ 1583
Linguistics, PhD ............................................................. 1584
Mathematics, MS: Foundations of Advanced Studies .......... 1629
Mathematics, MS: Industrial Mathematics ....................... 1630
Mathematics, MS: Statistics ............................................. 1632
Mathematics, PhD .......................................................... 1634
Mathematics Teacher Leadership, Graduate Certificate ...... 613
Mechanical Engineering .................................................... 764
Mechanical Engineering, BSE ......................................... 771
Mechanical Engineering, Minor ....................................... 776
Media Studies, MA .......................................................... 1516
Mediation and Negotiation, Graduate Certificate ............... 1153
Microbiology, BA ........................................................... 1078
Microbiology, BS ............................................................ 1083
Middle Eastern and North African Studies, Undergraduate Certificate . 1636
Military Science ............................................................... 1908
Molecular Diagnostics, Undergraduate Certificate ............... 824
Multicultural Knowledge of Mental Health Practices, Graduate Certificate .... 519
Museum Studies, Graduate Certificate ................................ 1035
Music ............................................................................ 193
Music, BA .................................................................... 241
Music, BFA: Collaborative Piano and Vocal ...................... 244
Music, BFA: Guitar ......................................................... 248
Music, BFA: Music Composition and Technology ............. 253
Music, BFA: Music History and Literature ......................... 256
Music, BFA: Piano ........................................................ 260
Music, BFA: Strings ....................................................... 264
Music, BFA: Voice .......................................................... 269
Music, BFA: Winds, Brass, and Percussion ....................... 272
Music Education, BFA: EC-A General Music ..................... 235
Music Education, BFA: EC-A Instrumental and General Music ...... 238
Music, Minor ................................................................. 276
Music, MM ................................................................. 277
Music, MM/Library and Information Science, MLIS ............ 279
Music, MM: Chamber Music Performance ......................... 280
Music, MM: Collaborative Piano: Instrumental .................. 282
Music, MM: Collaborative Piano: Vocal ................................ 283
Music, MM: Conducting: Choral Emphasis ......................... 284
Music, MM: Conducting: Instrumental ................................ 286
Music, MM: Music Education ........................................... 287
Music, MM: Music History and Literature .......................... 289
Music, MM: Performance: Guitar ..................................... 290
Music, MM: Performance: Keyboard .................................. 292
Music, MM: Performance: Percussion .................................................. 293
Music, MM: Performance: String Emphasis ....................................... 295
Music, MM: Performance: Vocal Emphasis ....................................... 296
Music, MM: String Pedagogy ............................................................. 300
Music, MM: Theory and Composition .............................................. 301

N
Nonprofit Management and Leadership, MS (College of Letters and Science, Department of Public and Nonprofit Administration) ...... 1728
Nonprofit Management and Leadership, MS (Lubar School of Business) 410
Nonprofit Management, Graduate Certificate (College of Letters and Science, Department of Public and Nonprofit Administration) ...... 1729
Nonprofit Management, Graduate Certificate (Lubar School of Business) ................................................................. 412
Nursing, BS ...................................................................................... 1835
Nursing (College of) ........................................................................ 1804
Nursing, MN .................................................................................... 1840
Nursing, PhD ................................................................................... 1842
Nursing Practice, DNP ................................................................. 1830
Nursing Practice, DNP/Business Administration, MBA ................. 1833
Nursing, RN to BS Program ............................................................ 1844
Nutritional Sciences, BS (Department of Biomedical Sciences) ...... 825
Nutritional Sciences, BS (Department of Kinesiology) .................... 886
Nutritional Sciences, Minor (Department of Biomedical Sciences) .. 826
Nutritional Sciences, Minor (Department of Kinesiology) ................. 887

O
Occupational Science and Technology ............................................ 889
Occupational Studies, BS ................................................................. 899
Occupational Therapy, MS ............................................................... 907
Occupational Therapy MS: Assistive Technology and Accessible Design ................................................................. 903
Occupational Therapy MS: Ergonomics .......................................... 905
Opportunities and Resources .................................................................. 35
Other Pre-Professional Health Study ................................................ 1694

P
Peace Studies & Conflict Resolution ............................................... 1638
Peace Studies and Conflict Resolution, Undergraduate Certificate ... 1638
Performing Arts, MFA: Film ............................................................. 191
Philosophy ....................................................................................... 1642
Philosophy, BA ............................................................................... 1651
Philosophy, MA ............................................................................... 1654
Philosophy, Minor ........................................................................... 1656
Physical Therapy ............................................................................ 911
Physical Therapy, DPT .................................................................... 911
Physics ......................................................................................... 1657
Physics, BS ................................................................................... 1666
Physics, Minor ............................................................................... 1670
Physics, MS ................................................................................... 1671
Physics, PhD .................................................................................. 1672
Policies .......................................................................................... 21
Political Science ............................................................................... 1674
Political Science, BA ................................................................. 1686
Political Science, MA ................................................................. 1690
Political Science, Minor .................................................................. 1691
Political Science, PhD ................................................................. 1692
Portuguese, Minor ........................................................................ 1766
Pre-Chiropractic ........................................................................... 1694
Pre-Dentistry .................................................................................. 1695
Pre-Forestry (Wildlife Management) ........................................... 1696
Pre-Law .......................................................................................... 1696
Pre-Medicine .................................................................................. 1697
Pre-Optometry .............................................................................. 1698
Pre-Pharmacy ............................................................................... 1699
Pre-Physical Therapy ...................................................................... 913
Pre-Physician Assistant ................................................................. 1700
Pre-Podiatry ................................................................................... 1700
Pre-Professional Programs ........................................................... 913
Pre-Professional Programs ........................................................... 1694
Pre-Veterinary Medicine .............................................................. 1701
Professional Writing and Communication, Graduate Certificate .... 1269
Psychology ..................................................................................... 1703
Psychology, BA ............................................................................. 1711
Psychology, BS ............................................................................. 1715
Psychology, Minor ......................................................................... 1718
Psychology, MS ............................................................................. 1719
Psychology, PhD ........................................................................... 1720
Public Administration, MPA (College of Letters and Science, Department of Public and Nonprofit Administration) ................. 1730
Public Administration, MPA (Lubar School of Business) .............. 414
Public Administration, MPA/Criminal Justice, MS ....................... 416
Public Administration, MPA/Criminal Justice, MS ....................... 1732
Public Administration, MPA/Urban Planning, MUP ..................... 418
Public Administration, MPA/Urban Planning, MUP ..................... 1733
Public and Non-Profit Administration ............................................. 1724
Public Health (Joseph J. Zilber School of) ..................................... 1850
Public Health, MPH ................................................................. 1887
Public Health MPH: Biostatistics ......................................................... 1866
Public Health MPH: Community and Behavioral Health Promotion .... 1869
Public Health MPH: Environmental Health Sciences .................... 1872
Public Health MPH: Epidemiology .................................................. 1875
Public Health MPH: Public Health Policy and Administration ........ 1878
Public Health, PhD ........................................................................ 1889
Public Health PhD: Biostatistics ..................................................... 1881
Public Health PhD: Community and Behavioral Health Promotion .... 1884
Quantitative Social Data Analysis, Undergraduate Certificate .......... 1734
Real Estate, Undergraduate Certificate ........................................... 419
Religious Studies ........................................................................... 1736
Religious Studies, BA .................................................................... 1738
Religious Studies, Minor ................................................................. 1741
Rhetorical Leadership, Graduate Certificate .................................... 1154
Russian and East European Studies, Undergraduate Certificate ...... 1351
Russian, BA .................................................................................. 1353
Russian, Minor .............................................................................. 1356
Scandinavian Studies, Undergraduate Certificate ......................... 1357
School Counseling, Graduate Certificate ........................................ 520
School Psychology, EdS ................................................................. 521
Social Welfare (Helen Bader School of) ......................................... 1890
Social Welfare, PhD ....................................................................... 1921
Social Work .................................................................................... 1912
Social Work, BS ............................................................................ 1924
Social Work, MSW ........................................................................ 1926
Social Work, MSW/Criminal Justice, MS ...................................... 1928
Social Work, MSW/Social Welfare, PhD .......................................... 1929
Social Work, MSW/Women’s and Gender Studies, MA ............... 1932
Sociology ....................................................................................... 1742
Sociology, BA ................................................................................. 1749
Sociology, MA ............................................................................... 1752
Sociology, Minor ............................................................................ 1754
Sociology, PhD .............................................................................. 1754
Somatics, Minor ............................................................................. 179
Spanish and Portuguese ................................................................. 1757
Spanish, BA ................................................................................. 1768
Spanish for Health Professionals, Undergraduate Certificate ....... 1767
Spanish, MA .................................................................................. 1772
Spanish, Minor ............................................................................... 1773
State and Local Taxation, Graduate Certificate ................................ 420
Structural Engineering, Minor ....................................................... 675
Supply Chain and Operations Management, BBA ....................... 421
Support Services for Online Students in Higher Education, Graduate Certificate ......................................................... 444
Sustainable Peacebuilding, MSP ..................................................... 1846
Teaching and Learning ................................................................ 524
Teaching and Learning in Higher Education, Graduate Certificate .... 446
Technology Entrepreneurship, Graduate Certificate .................... 425
Technology Entrepreneurship, Undergraduate Certificate ........... 424
Theatre ......................................................................................... 304
Theatre, BA ................................................................................... 313
Theatre, BFA: Performance ........................................................... 318
Theatre, BFA: Production ............................................................... 323
Theatre, Minor ............................................................................. 326
Theatre Teaching Certification, Minor ............................................ 313
Therapeutic Recreation, Undergraduate Certificate ...................... 908
Transition for Students with Disabilities, Graduate Certificate ....... 614
Translation and Interpreting Studies ................................................ 1775
Translation and Interpreting Studies, MA ........................................ 1776
Translation, Graduate Certificate ................................................... 1542
Trauma Informed Care, Graduate Certificate (College of Health Sciences, Department of Occupational Science and Technology) ......................................................... 909
Trauma Informed Care, Graduate Certificate (College of Nursing) ... 1848
Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) ..................... 1933
Trauma Informed Care, Graduate Certificate (School of Education, Department of Educational Psychology) ....................... 522
Tuition and Fees ............................................................................ 19
Undecided Students ...................................................................... 38
Undergraduate Admission .............................................................. 12
Undergraduate Policies ................................................................. 27
Urban Education .......................................................................... 619
Urban Education, PhD .................................................................. 644
Urban Education PhD: Adult, Continuing, and Higher Education Leadership (ACHEL) ................................................................. 621
Urban Education PhD: Art Education ............................................. 624
Urban Education PhD: Curriculum and Instruction ....................... 627
Urban Education PhD: Educational Administration ..................... 629
Urban Education PhD: Exceptional Education ............................... 632
Urban Education PhD: Mathematics Education ............................ 635
Urban Education PhD: Multicultural Studies ................................. 638
Urban Education PhD: Social Foundations of Education .......................... 640
Urban Planning ...................................................................................... 67
Urban Planning, MUP ........................................................................... 77
Urban Planning, MUP/Architecture, MArch ......................................... 78
Urban Planning, MUP/Engineering, MS ............................................... 79
Urban Planning, MUP/Public Administration, MPA .............................. 80
Urban Planning MUP Geographic Information Systems ...................... 73
Urban Planning MUP: Real Estate Development .................................. 75
Urban Planning, Undergraduate Certificate ........................................... 81
Urban Studies ....................................................................................... 1778
Urban Studies, BA ................................................................................ 1782
Urban Studies, MS ................................................................................ 1786
Urban Studies, MS/Library and Information Science, MLIS .................. 1787
Urban Studies, PhD ............................................................................ 1788
Urban Studies, Undergraduate Certificate ............................................ 1790
UWM Online ......................................................................................... 39

W
Web Development, Undergraduate Certificate ..................................... 702
Women's and Gender Studies .............................................................. 1792
Women's and Gender Studies, BA ....................................................... 1795
Women's and Gender Studies, Graduate Certificate ......................... 1799
Women's and Gender Studies, MA ...................................................... 1800
Women's and Gender Studies, MA/Library and Information Science, MLIS ....................................................... 1801
Women's and Gender Studies, MA/Social Work, MSW ....................... 1802
Women's and Gender Studies, Minor .................................................. 1802
World Language, Minor ...................................................................... 615

Y
Youth Work, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) ......................................................... 1934
Youth Work, Undergraduate Certificate (School of Education, Department of Educational Policy and Community Studies) ................................. 483